



# STIC Search Results Feedback Form

**EIC 2600**

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Pamela Reynolds, EIC 2600 Team Leader  
571-272-3505, Knox 8B59

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 2663

➤ Relevant prior art found, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

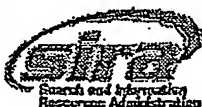
- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art not found:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2600 Knox 8B59



(71)

RUSH

by web

RUSH SPE SIGNATURE

Bill Kynard 2627

Access DB# 214196

## SEARCH REQUEST FORM

Scientific and Technical Information Center

EIC 2600

Requester's Full Name Daniell L. Negron Examiner # 79955 Date 1/29/07  
Art Unit 2627 Phone Number 27559 Serial Number 10652750  
Office Location KNX 8A71 Format preferred (circle) PAPER EMAIL BOTH

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Let us know what you already have and so do not need. Include the keywords, synonyms and meaning of acronyms. Define all terms that may have a specific meaning. Please attach a copy of the background, abstract, claims and other pertinent information.

Please state how the terms or keyword strings should relate to one another.

Title of the Invention protection feedback for read/write element  
Inventor(s) Mike Luk

Earliest Priority date to be used 8/29/03

Please search invention in view of claims

35 + 41.

search for pulse or peak detector

with a (bandpass or bpf or bandpass) filter and

- correlation filter or correlator

+ bandpass and correlator same transfer function  
\* please contact examiner for additional instructions \*

### STAFF USE ONLY

Searcher SKY5

Phone 23534

Location KNX 8B59

Date picked up 1/30

Date completed 1/31

Search Prep/review 259

Online Time 91

### TYPE of Search

Text ☒

Litigation ☐

Other ☐

### Databases Searched

Dialog ☐

STN ☐

QuestelOrbit ☐

LEXIS/NEXIS ☐

Courtlink ☐

Other ☒

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quantum corporation demodulation

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File Format: PDF/Adobe Acrobat

**Quantum Corporation**, Milpitas, ... complete read, write, and servo **demodulation** solution. ... The servo **demodulator** supports 20MHz bursts and. includes ...ieeexplore.ieee.org/iel3/4459/12641/00585398.pdf?arnumber=585398 - [Similar pages](#)**[PDF] IEEE Global Telecommunications Conference - GLOBECOM '97 - Global ...**

File Format: PDF/Adobe Acrobat

Kelly Knudson Fitzpatrick, **Quantum Corp.**, USA. Transmission ... Code Acquisition in Optical Pulse CDMA utilizing Coherent Correlation **Demodulation** ...ieeexplore.ieee.org/iel4/5002/14054/00644119.pdf?arnumber=644119 - [Similar pages](#)**More about Dr. Michael D. Sidman**Automatic Correction of Position **Demodulator** Offsets. 5247398, 9/93. ... At **Quantum Corp.**, Boulder, CO and via video teleconference to Shrewsbury, MA 12/97. ...www.sidman.com/cvmore.htm - 16k - [Cached](#) - [Similar pages](#)**Engineering Expert Witness and Technical Consultant**As Digital Equipment **Corporation's** top servo systems guru, Dr. Sidman was ... involving Maxtor **Corporation**, **Quantum Corporation**, IBM, Western Digital and ...www.sidman.com/legal/index.htm - 16k - [Cached](#) - [Similar pages](#)**Quantum Defect Method - What does QDM stand for? Acronyms and ...**Definition of **Quantum Defect Method** in the list of acronyms and abbreviations provided by the Free ... QDM, Quadratic **Demodulator**. QDM, Quake Data Merge ...acronyms.thefreedictionary.com/**Quantum**+Defect+Method - 24k - [Cached](#) - [Similar pages](#)**Quad burst servo demodulator with adjustable slew rate for hard ...**The quad burst servo **demodulator** includes a peak voltage detecting system ... Sector Servo," (issued May 1987 to Moon et al. and assigned to **Quantum Corp.** ...www.freepatentsonline.com/5901002.html - 34k - [Cached](#) - [Similar pages](#)**[PDF] draft Winter 2006 rev7web3**File Format: PDF/Adobe Acrobat - [View as HTML](#)Information Theory"\* examined algorithms for **demodulation** and signal ... employed in Servo Control Design at **Quantum Corporation** in Costa Mesa, CA. ...cmrr.ucsd.edu/news\_&\_events/Newsletter/cmrrrprt\_25.pdf - [Similar pages](#)**DVB-H Global Mobile TV : Products**Sony Semiconductor, a division of Sony **Corporation** offer a leading edge Tuner & **Demodulator** chipset and/or ultra small size module for application into ...www.dvb-h.org/products.htm - 48k - [Cached](#) - [Similar pages](#)**HPCwire Article # 11388**Milpitas, CA.-- **Quantum Corporation** has introduced two high-capacity drive series, ... the company said its LSI Logic **demodulation** chip receives digital ...www.hpcwire.com/hpc-bin/artread.pl?direction=Next&articlenumber=11387 - 55k - [Cached](#) - [Similar pages](#)**Method and apparatus for protecting data from mis-synchronization ...**

Assignee. **Quantum Corporation** ... a. a **demodulator** for producing from a received signal  
d data symbols and k m-bit error correction symbols; ...  
[www.patentstorm.us/patents/5528607-claims.html](http://www.patentstorm.us/patents/5528607-claims.html) - 17k - [Cached](#) - [Similar pages](#)

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multiwindow estimates of correlation

Search

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[Preferences](#)**Web**Results 1 - 10 of about 917 for **multiwindow estimates of correlation**. (0.38 seconds)**Scholarly articles for multiwindow estimates of correlation**

Multiwindow Estimators of Correlation - McWhorter - Cited by 5  
 MRI-Guided SPECT Perfusion Measures and Volumetric MRI ... - El Fakhri - Cited by 17  
 Symmetric stereo with multiple windowing - Fusiello - Cited by 28

**[PDF] Multiwindow Estimators Of Correlation - Signal Processing, IEEE ...**

File Format: PDF/Adobe Acrobat

multiwindowed copies of the data to construct the **estimates** of the **correlation** coefficients. In this section, we establish that the **multiwindow** estimators ...

ieeexplore.ieee.org/iel4/78/14292/00655428.pdf?arnumber=655428 - [Similar pages](#)

**Welcome to IEEE Xplore 2.0: Multiwindow estimators of correlation**

**Multiwindow** estimators of **correlation**. McWhorter, L.T. Scharf, L.L. ... and array processing have embedded within them sample **estimates of correlation**. ...

ieeexplore.ieee.org/xpls/abs\_all.jsp?arnumber=471408 - [Similar pages](#)

**[PDF] Extended-Time Multitaper Frequency Domain Cross-Correlation ...**

File Format: PDF/Adobe Acrobat

**multiwindow**. cos window. FFT normalization ... tral **correlation estimates**, Bull. Seism. Soc. Am. 90, 1507-1520. Park, J., and V. Levin (2005). ...

bssa.geoscienceworld.org/cgi/reprint/96/1/344.pdf - [Similar pages](#)

**[PDF] Robust 3-D Estimates of Reflector Dip**File Format: PDF/Adobe Acrobat - [View as HTML](#)

**correlation** scan over candidate dips on 2-D seismic lines. ... equation 18a, and (b) the **estimates** of p and q using the **multiwindow** dip search ...

www.agl.uh.edu/publications/otherPublications/robust\_estimates\_of\_dip\_rev2.pdf -

[Similar pages](#)

**[PDF] Comparison of wavelet estimates from VSP and surface data**File Format: PDF/Adobe Acrobat - [View as HTML](#)

data, we use normalized cross-**correlation** to carry out the comparison. This study. shows that wavelet **estimates** from VSP surveys can be used to evaluate the ...

www.crewes.org/Reports/2002/2002\_24.pdf - [Similar pages](#)

**[PDF] MRI-Guided SPECT Perfusion Measures and Volumetric MRI in ...**

File Format: PDF/Adobe Acrobat

(Generalized Linear **Multiwindow**). Reconstruction of. Preliminary Image (OSEM) ... curve-fitting procedure provided **estimates of correlation** be- ...

archneur.ama-assn.org/cgi/reprint/60/8/1066.pdf - [Similar pages](#)

**[PS] Experiments with a new Area-Based Stereo Algorithm**File Format: Adobe PostScript - [View as Text](#)

As observed by Kanade and Okutomi [9], when the **correlation** window covers ... **multi-window** scheme yields robust disparity **estimates** in the presence of occlu ...

www.ece.eps.hw.ac.uk/Research/oceans/publications/Manuel\_Truccho/iciap97.ps -

[Similar pages](#)

**[PDF] Efficient Stereo with Multiple Windowing**

File Format: PDF/Adobe Acrobat

we perform the **correlation** with nine different windows. (showed in Fig. I), and retain the ...  
**multi-window** scheme yields robust disparity **estimates** in ...

doi.ieeecomputersociety.org/10.1109/CVPR.1997.609428 - [Similar pages](#)

**[PDF] The Multiple Window Parameter Transform**

File Format: PDF/Adobe Acrobat

the **multiwindow estimate** is consistently lower. Hence, using ... of **correlation** among the  
two features. These peaks can be ...

doi.ieeecomputersociety.org/10.1109/34.177381 - [Similar pages](#)

**[PDF] Extended-time multi-taper frequency domain cross-correlation ...**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

spectral **estimates** (Thomson, 1982; Park et al., 1987) lead to a receiver function **estimate**.

H. R. ( f ) by calculating the cross-**correlation** of the radial ...

www1.gly.bris.ac.uk/~george/etmtrf.pdf - [Similar pages](#)

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File 344:Chinese Patents Abs Jan 1985-2006/Jan  
(c) 2006 European Patent Office  
File 347:JAPIO Dec 1976-2006/Sep(Updated 061230)  
(c) 2007 JPO & JAPIO  
File 350:Derwent WPIX 1963-2006/UD=200707  
(c) 2007 The Thomson Corporation

Set	Items	Description
S1	142	CORRELATION()RECEIVER??
S2	52053	DETECT???(3N)(PULSE?? OR PEAK??)
S3	1243	CORRELATION()SIGNAL??
S4	29939	(BANDPASS?? OR BAND()PASS)(3N)FILTER??
S5	5514	BPF
S6	213	S2(3N)DEMODULAT?
S7	5	S2(3N)(SERVO() (TRACK?? OR MARK??))
S8	800435	FILTER?? OR (CORRELAT? OR ANTI()ALIAS)() (FILTER?? OR RECEI- VER?? OR SIGNAL??) OR CORRELATOR??
S9	11991	TRANSFER()FUNCTION??
S10	57904	MAGNETIC()TAPE??
S11	151	AU=(NORTON, D? OR NORTON D?) OR DAVID(2N)NORTON
S12	0	QUANTUM()CORPORATION?
S13	6	S1 AND S2
S14	0	S13 AND S9
S15	2	S13 AND IC=G11B?
S16	118	S3 AND S2
S17	0	S16 AND S9
S18	1	(S13 OR S15) AND (S4 OR S5)
S19	44	S6 AND IC=G11B?
S20	0	S19 AND S9
S21	3	S19 AND S10
S22	5	S7 AND IC=G11B?
S23	5	S22 NOT S21
S24	3543	S8 AND S9
S25	1646	S8(5N)S9
S26	67	S25 AND IC=G11B?
S27	0	S26 AND S2
S28	2	S26 AND (S4 OR S5)
S29	0	S26 AND S2
S30	11	S25 AND S2
S31	2	S11 AND S1

15/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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08330530 \*\*Image available\*\*  
METHOD FOR DETECTING PEAK OF CORRELATION SIGNAL AND PULSE INPUT SIGNAL  
AND CORRELATION RECEIVER

PUB. NO.: 2005-078790 [JP 2005078790 A]  
PUBLISHED: March 24, 2005 (20050324)  
INVENTOR(s): NORTON DAVID ELLIOTT JR  
APPLICANT(s): QUANTUM CORP  
APPL. NO.: 2004-243526 [JP 2004243526]  
FILED: August 24, 2004 (20040824)  
PRIORITY: 03 652750 [US 2003652750], US (United States of America),  
August 28, 2003 (20030828)

METHOD FOR DETECTING PEAK OF CORRELATION SIGNAL AND PULSE INPUT SIGNAL  
AND CORRELATION RECEIVER

INTL CLASS: G11B-005/584

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a correlation receiver for detecting a peak of a correlation signal.

SOLUTION: The correlation receiver includes a master peak detector for determining whether an amplitude of a pulse of the correlation signal exceeds an amplitude of a prior peak by at least a first delta. If so, the master peak detector designates the pulse as a peak and sets an amplitude of the peak as the amplitude of the prior peak increased by a second delta. The master peak detector may also determine whether the amplitude of the correlation signal pulse falls below an amplitude of the prior peak less a droop value; and, if so, the master peak detector does not designate the pulse as a peak.

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15/3,K/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0014912408 - Drawing available  
WPI ACC NO: 2005-260076/200527  
XRPX Acc No: N2005-213409

Method of detecting peaks of correlation signal for tracking movement of magnetic tape in magnetic tape drive, involves determining whether amplitude of pulse of correlation signal exceeds amplitude of prior peak

Patent Assignee: QUANTUM CORP (QUAN)

Inventor: NORTON D E

Patent Family (3 patents, 35 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20050046987	A1	20050303	US 2003652750	A	20030828	200527 B
EP 1517305	A1	20050323	EP 2004254871	A	20040813	200527 E
JP 2005078790	A	20050324	JP 2004243526	A	20040824	200527 E

Priority Applications (no., kind, date): US 2003652750 A 20030828

18/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0014912408 - Drawing available  
WPI ACC NO: 2005-260076/200527  
XRPX Acc No: N2005-213409

Method of detecting peaks of correlation signal for tracking movement of magnetic tape in magnetic tape drive, involves determining whether amplitude of pulse of correlation signal exceeds amplitude of prior peak

Patent Assignee: QUANTUM CORP (QUAN)

Inventor: NORTON D E

Patent Family (3 patents, 35 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20050046987	A1	20050303	US 2003652750	A	20030828	200527 B
EP 1517305	A1	20050323	EP 2004254871	A	20040813	200527 E
JP 2005078790	A	20050324	JP 2004243526	A	20040824	200527 E

Priority Applications (no., kind, date): US 2003652750 A 20030828

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20050046987	A1	EN	10	7	
EP 1517305	A1	EN			

Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI  
FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR  
JP 2005078790 A JA 12

Method of detecting peaks of correlation signal for tracking movement of magnetic tape in magnetic tape drive, involves determining...

#### Original Titles:

... Correlation receiver for demodulating servo track information...

...METHOD FOR DETECTING PEAK OF CORRELATION SIGNAL AND PULSE INPUT  
SIGNAL AND CORRELATION RECEIVER

...

... Correlation receiver for demodulating servo track information

Alerting Abstract ...correlation receiver; and method for detecting pulse input signal.

...

...USE - For detecting peak of correlation signal using correlation receiver (claimed), for tracking movement of magnetic tape in magnetic tape drive...

...ADVANTAGE - Reduces noises in the subsequent pulses over time, thereby detection precision. Maintaining only the peak information allows the system to be down sampled to the optical spot rate, thereby reducing the...  
...DESCRIPTION OF DRAWINGS - The figure shows the bandpass filter circuit used in correlation receiver.

#### Class Codes

International Classification (Main): G11B-005/02 ...

... G11B-005/584

(Additional/Secondary): G11B-005/09

21/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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00848916 \*\*Image available\*\*  
RETRYING CONTROL SYSTEM OF MAGNETIC TAPE DEVICE

PUB. NO.: 56-169216 [JP 56169216 A]  
PUBLISHED: December 25, 1981 (19811225)  
INVENTOR(s): ICHII HIROSHI  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 55-073907 [JP 8073907]  
FILED: June 02, 1980 (19800602)  
JOURNAL: Section: P, Section No. 110, Vol. 06, No. 59, Pg. 7, April  
16, 1982 (19820416)

RETRYING CONTROL SYSTEM OF MAGNETIC TAPE DEVICE

INTL CLASS: G11B-005/41 ; G11B-005/09 ; G11B-015/02

#### ABSTRACT

...RH is demodulated by a demodulating circuit DEM and the inversion of the signal is detected to output a peak pulse. The demodulated signal is supplied to a read control circuit RCC to make a check on data...

21/3,K/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0007466873 - Drawing available  
WPI ACC NO: 1996-077118/199608  
XRPX Acc No: N1996-064174

Track following positioning system for filtered average servo demodulator - maintains position of magnetic tape head in alignment with tracks of data stored in magnetic medium by generating servo error signals and rectified and filtered signals producing reference signals

Patent Assignee: WANGTEK INC (WANG-N)

Inventor: HARMAN J H

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5483394	A	19960109	US 1993146369	A	19931029	199608 B

Priority Applications (no., kind, date): US 1993146369 A 19931029

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5483394	A	EN	18	9	

...maintains position of magnetic tape head in alignment with tracks of data stored in magnetic medium by generating servo error...

Alerting Abstract ...To generate servo error signals, the filtered average servo demodulator peak detects and averages the rectified and filtered output signals and then subtracts a proportion of the...

#### Class Codes

International Classification (Main): G11B-005/584

(Additional/Secondary): G11B-005/55

Original Publication Data by Authority

Original Abstracts:

...including filtered average servo demodulators for maintaining the position of a magnetic tape head in alignment with tracks of data stored in magnetic medium. A servo head tracks a centerline in a...

...response thereto. To generate servo error signals, the filtered average servo demodulator peak detects and averages the rectified and filtered output signals and then subtracts a proportion of the peak detected signals from...

21/3,K/3 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0001377395

WPI ACC NO: 1977-D6669Y/

Track control system for video tape recorder - uses control signal on tape for synchronisation positioning

Patent Assignee: MATSUSHITA ELEC IND CO LTD (MATU)

Inventor: DEGUCHI M; WAKAMI N

Patent Family (4 patents, 3 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
DE 2647430	A	19770428	DE 2647430	A	19761020	197718 B
US 4127881	A	19781128	US 1976733123	A	19761018	197849 E
CA 1078959	A	19800603				198025 E
DE 2647430	C	19820909	DE 2647430	A	19761020	198237 E

Priority Applications (no., kind, date): DE 2647430 A 19761020; JP 1975150289 A 19751216; JP 1975150288 A 19751216; JP 1975136504 A 19751112; JP 1975127159 A 19751021; JP 197669232 A 19760611

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
CA 1078959	A	EN				

Alerting Abstract ...The track control system for a video tape recorder, uses a magnetic tape with inclined tracks and control signals recorded along its edge. The tape is scanned by...

...The difference is formed between the outputs of the demodulator and a peak detector. The detected control signal is used to synchronise a phase generator. The difference in phased is used...

Class Codes

International Classification (Main): G11B-015/46

(Additional/Secondary): G11B-015/52 ...

... G11B-021/10

Original Publication Data by Authority

Original Abstracts:

...magnetic video recording and reproducing system, in which a signal is

recorded on a magnetic tape as record tracks at an angle with respect to the longitudinal direction of the tape and...  
?

23/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06824961 \*\*Image available\*\*  
DISK DRIVE AND WINDOW SIGNAL ADJUSTING METHOD

PUB. NO.: 2001-052455 [JP 2001052455 A]  
PUBLISHED: February 23, 2001 (20010223)  
INVENTOR(s): WATANABE HIDEYUKI  
APPLICANT(s): FUJITSU LTD  
APPL. NO.: 11-222921 [JP 99222921]  
FILED: August 05, 1999 (19990805)

INTL CLASS: G11B-021/10 ; G11B-020/14

ABSTRACT

... mu;S. After the power source is turned on, the proper generation period of the servo mark window is detected and the pulse set values of a register part 52 in a window generating circuit 50 are varied...

23/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2007 JPO & JAPIO. All rts. reserv.

00836671 \*\*Image available\*\*  
SYSTEM FOR LOCATING MAGNETIC HEAD

PUB. NO.: 56-156971 [JP 56156971 A]  
PUBLISHED: December 03, 1981 (19811203)  
INVENTOR(s): YAMAZAKI ETSURO  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 55-057622 [JP 8057622]  
FILED: April 30, 1980 (19800430)  
JOURNAL: Section: P, Section No. 105, Vol. 06, No. 38, Pg. 153, March 09, 1982 (19820309)

INTL CLASS: G11B-021/10 ; G11B-005/58

ABSTRACT

... the position error signals from position pulses of respective tracks when the levels of synchronizing pulses detected from plural servo tracks are below prescribed values...

23/3,K/3 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2007 The Thomson Corporation. All rts. reserv.

0013811500 - Drawing available  
WPI ACC NO: 2003-312351/  
XRPX Acc No: N2003-248767  
Hard disk drive has servo sector pulse generator to generate servo motor pulse predetermined time after detection of each servo mark from servo information read from disk  
Patent Assignee: KOYANAGI T (KOYA-I); TOSHIBA KK (TOKE)  
Inventor: KOYANAGI T  
Patent Family (5 patents, 3 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 20030026022	A1	20030206	US 200295573	A	20020313	200330 B
JP 2003045129	A	20030214	JP 2001235106	A	20010802	200330 E
SG 96276	A1	20030523	SG 20021347	A	20020308	200347 E
JP 3556623	B2	20040818	JP 2001235106	A	20010802	200454 E
US 6839194	B2	20050104	US 200295573	A	20020313	200503 E

Priority Applications (no., kind, date): US 200295573 A 20020313; JP 2001235106 A 20010802

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030026022	A1	EN	15	9	
JP 2003045129	A	JA	12		
SG 96276	A1	EN			
JP 3556623	B2	JA	17		Previously issued patent JP 2003045129

Hard disk drive has servo sector pulse generator to generate servo motor pulse predetermined time after detection of each servo mark from servo information read from disk

#### Class Codes

International Classification (Main): G11B-021/10 ...

... G11B-005/09 ...

... G11B-005/596

(Additional/Secondary): G11B-021/02 ...

... G11B-005/012 ...

... G11B-005/82

23/3,K/4 (Item 2 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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0013227542 - Drawing available

WPI ACC NO: 2003-312352/200330

XRPX Acc No: N2003-248768

Disk drive e.g. hard disk drive, identifies servo positional information within mark detection period and servo pulse generation period in respective operation modes

Patent Assignee: TODA A (TODA-I); TOSHIBA KK (TOKE)

Inventor: TODA A

Patent Family (6 patents, 3 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 20030026023	A1	20030206	US 200295575	A	20020313	200330 B
JP 2003045130	A	20030214	JP 2001235107	A	20010802	200330 E
JP 2004127512	A	20040422	JP 2001235107	A	20010802	200428 E
			JP 2003409203	A	20031208	
JP 3561246	B2	20040902	JP 2001235107	A	20010802	200458 E
SG 107580	A1	20041229	SG 20021346	A	20020308	200508 E
US 6947233	B2	20050920	US 200295575	A	20020313	200562 E

Priority Applications (no., kind, date): JP 2003409203 A 20031208; US  
200295575 A 20020313; JP 2001235107 A 20010802

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20030026023	A1	EN	23	10	
JP 2003045130	A	JA	17		
JP 2004127512	A	JA	21		Division of application JP 2001235107
JP 3561246	B2	JA	21		Previously issued patent JP 2003045130
SG 107580	A1	EN			

#### Class Codes

International Classification (Main): G11B-021/08 ...

... G11B-021/10 ...

... G11B-005/09 ...

... G11B-005/596

(Additional/Secondary): G11B-015/12

#### Original Publication Data by Authority

#### Original Abstracts:

...servo information, each time a servo controller generates a servo gate pulse. Upon detecting the servo mark, the R/ W channel detects, from the read information, position information contained in the servo information and following the...

...servo controller generates a servo gate pulse. Upon detecting the servo mark, the R/W channel detects, from the read information, position information contained in the servo information and following the servo mark, at a timing...

#### Claims:

...servo mark, contained in said each servo information item, from information read by the selected head from the corresponding disk, thereby detecting, from the read information, the position information contained in said each servo information item...

...corresponding disk, thereby detecting, from the read information, the position information contained in said each servo information item, at a timing determined by a timing at which the servo mark has been detected, the detection means...

23/3,K/5 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2007 The Thomson Corporation. All rts. reserv.

0002934875

WPI ACC NO: 1984-012630/

Servo track positioning system for magnetic disc - has read detector connected to alternate servo tracks pulse detector which pulses up-down counter

Patent Assignee: IBM CORP (IBMC)

Inventor: PENNINGTON D H

Patent Family (4 patents, 4 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 97768	A	19840111	EP 1983102550	A	19830315	198403 B
US 4454549	A	19840612	US 1982392836	A	19820628	198426 E
EP 97768	B	19870128	EP 1983102550	A	19830315	198704 E
DE 3369586	G	19870305				198710 E

Priority Applications (no., kind, date): US 1982392836 A 19820628

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 97768	A	EN	8	3	
Regional Designated States,Original: DE FR GB					
EP 97768	B	EN			
Regional Designated States,Original: DE FR GB					

...has read detector connected to alternate servo tracks pulse  
detector which pulses up-down counter

#### Class Codes

International Classification (Main): G11B-005/58

?

28/3,K/1 (Item 1 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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0008194585 - Drawing available

WPI ACC NO: 1997-298326/

XRPX Acc No: N1997-246492

Digital decoder for audio signal encoded in compression noise reduction scheme - has digital filter with one or more parameters which define its characteristics and adaptive control facility for determining parameters

Patent Assignee: SONY CORP (SONY); SONY PICTURES ENTERTAINMENT INC (SONY)

Inventor: EMBREE P M; MERCS L

Patent Family (9 patents, 71 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1997019448	A1	19970529	WO 1996US18755	A	19961122	199727 B
AU 199710233	A	19970611	AU 199710233	A	19961122	199740 E
EP 862778	A1	19980909	EP 1996940591	A	19961122	199840 E
			WO 1996US18755	A	19961122	
US 5907623	A	19990525	US 1995562287	A	19951122	199928 E
JP 2000500900	W	20000125	WO 1996US18755	A	19961122	200016 E
			JP 1997519915	A	19961122	
EP 862778	B1	20020206	EP 1996940591	A	19961122	200211 E
			WO 1996US18755	A	19961122	
DE 69619124	E	20020321	DE 69619124	A	19961122	200227 E
			EP 1996940591	A	19961122	
			WO 1996US18755	A	19961122	
CA 2238069	C	20040127	CA 2238069	A	19961122	200412 E
			WO 1996US18755	A	19961122	
US 6807278	B1	20041019	US 1995562287	A	19951122	200469 E
			US 1998158674	A	19980922	

Priority Applications (no., kind, date): US 1998158674 A 19980922; US 1995562287 A 19951122

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1997019448	A1	EN	31	7	
National Designated States,Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN					
Regional Designated States,Original: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG					
AU 199710233	A	EN			Based on OPI patent WO 1997019448
EP 862778	A1	EN			PCT Application WO 1996US18755
					Based on OPI patent WO 1997019448
Regional Designated States,Original: DE ES FR GB IT					
JP 2000500900	W	JA	35		PCT Application WO 1996US18755
					Based on OPI patent WO 1997019448
EP 862778	B1	EN			PCT Application WO 1996US18755
					Based on OPI patent WO 1997019448
Regional Designated States,Original: DE ES FR GB IT					
DE 69619124	E	DE			Application EP 1996940591
					PCT Application WO 1996US18755
					Based on OPI patent EP 862778
					Based on OPI patent WO 1997019448
CA 2238069	C	EN			PCT Application WO 1996US18755
					Based on OPI patent WO 1997019448
US 6807278	B1	EN			Continuation of application US 1995562287

# Class Codes

International Classification (Main): G11B-020/04 ...

... G11B-020/24

... (Additional/Secondary): G11B-020/10

## Original Publication Data by Authority

### Claims:

...and producing as an output said decoded signal; and at least one feedback signal path having a control block having at least one bandpass filter, said control block for receiving said decoded signal and determining...

...at least one of said linear filters as a function of said decoded signal; wherein said encoded signal drives the input of said initial linear filter, said decoded signal drives the input...

...outputs of said bandpass filters.

What is claimed...

...control block for receiving said decoded signal and determining by means of digital signal processing said parameters of at least one of said linear filters as a function of said decoded signal; wherein said decoded

28/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0003345829

WPI ACC NO: 1985-110410/198518

Track following servo for higher density disk files - processes head displacement error signal by second order summing filter to remove noise components

Patent Assignee: MEMOREX CORP (MEMO); UNISYS CORP (BURS)

Inventor: EL-SADI A I; ELSADI A I

Patent Family (10 patents, 9 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1985001806	A	19850425	WO 1984US1671	A	19841017	198518 B
EP 139531	A	19850502	EP 1984307200	A	19841019	198518 E
AU 198435523	A	19850507				198529 E
JP 61500193	W	19860130	JP 1984503950	A	19841017	198611 E
US 4577244	A	19860318	US 1983543688	A	19831020	198614 E
			US 1983560715	A	19831212	
			US 1985808706	A	19851213	
			US 1988167230	A	19880311	
US 4642541	A	19870210	US 1983543688	A	19831020	198708 E
			US 1983560715	A	19831212	
			US 1985808706	A	19851213	
			US 1988167230	A	19880311	
US 4885516	A	19891205	US 1983543688	A	19831020	199006 E
			US 1983560715	A	19831212	
			US 1985808706	A	19851213	
			US 1988167230	A	19880311	
EP 139531	B	19900411	EP 1984307200	A	19841019	199015 E

DE 3481954	G	19900517	199021	E
CA 1278377	C	19901227	199106	E

Priority Applications (no., kind, date): US 1985808706 A 19851213; US 1983560715 A 19831212; US 1983543688 A 19831020; US 1988167230 A 19880311

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1985001806	A	EN	19	6	
Regional Designated States, Original: BE DE FR GB IT NL					
EP 139531	A	EN			
National Designated States, Original: AU JP					
EP 139531	B	EN			
Regional Designated States, Original: BE DE FR GB IT NL					
CA 1278377	C	EN			

Alerting Abstract ...passed through an integrator (D') the output of which is applied to a second order band pass filter (F1') and a parallel second order low pass filter (F2...

Equivalent Alerting Abstract ...filter" array where motor current sense voltage  $V_i$  is integrated and processed, by "second order band - pass" filter means  $F_a$  and also by "second order low pass" filter  $F_b$ . A complex position error...

...low pass filter stage operates at a prescribed center-frequency range to implement a prescribed transfer function. The filter is also adapted to apply the time variant position-error signals being time-differentiated, to...

#### Class Codes

... (Additional/Secondary): G11B-021/10 ...

... G11B-005/59 ...

... G11B-005/596

#### Original Publication Data by Authority

#### Original Abstracts:

...Quality factor"  $Q$ ). Such "second order" filters are novel in themselves, and particularly as so applied (most especially as so used in such a servo system

#### Claims:

... $S_x$ ) produced by differentiating said position error signal, said filter means comprising a second-order band - pass filter (F1) a first second-order low-pass filter (F2) and a second second-order low...

...pass filter, said further signal ( $S_x$ ) being applied to the inputs of said second-order band - pass filter (F1) and said first second-order low-pass filter (F2), and the outputs of said three filters being summed to produce said feed-back signal ( $X_o$ ), said second-order band - pass filter (F1) and first and second second-order low-pass filters (F2, F3) being based on...

?

30/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2007 JPO & JAPIO. All rts. reserv.

08612259 \*\*Image available\*\*  
ADAPTIVE EQUALIZER, ADAPTIVE EQUALIZATION METHOD, AND RECORDING MEDIUM

PUB. NO.: 2006-005619 [JP 2006005619 A]  
PUBLISHED: January 05, 2006 (20060105)  
INVENTOR(s): SASAKI HIDEAKI  
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD  
APPL. NO.: 2004-179259 [JP 2004179259]  
FILED: June 17, 2004 (20040617)

#### ABSTRACT

... etc., and the adaptive equalizer has a transfer function estimating means 206 of estimating a transfer function to be equalized, a filter means 204 of performing equalization processing, a filter coefficient updating means 207 of updating the coefficient value of the filter means 204 based upon the estimation result of the transfer function estimation means 206, a filter coefficient peak value detecting means 208 of detecting a peak value in a tap coefficient group of the filter means 204, and a convergence degree...

... convergence of the filter means 204 based upon the detection result of the filter coefficient peak value detecting means 208, and can directly detect and use the update progress state of the tap...

30/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2007 JPO & JAPIO. All rts. reserv.

06171552 \*\*Image available\*\*  
SOUND IMAGE LOCALIZATION ADJUSTMENT DEVICE

PUB. NO.: 11-113099 [JP 11113099 A]  
PUBLISHED: April 23, 1999 (19990423)  
INVENTOR(s): MORIOKA OSAMU  
TAKAI KENJI  
APPLICANT(s): NIPPON COLUMBIA CO LTD  
APPL. NO.: 09-284363 [JP 97284363]  
FILED: September 30, 1997 (19970930)

#### ABSTRACT

...calculation means 13 calculates the lead-out distance of wires 22L, 22R, based on a detection pulse detected via a distance detection sensor provided to a reel 25 or the wires 22L, 22R when speakers 2L, 2R of sound video equipment are moved and the transfer function of a correction filter of a sound image correction circuit 11 is corrected, based on the detection result to...

30/3,K/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2007 JPO & JAPIO. All rts. reserv.

01046368 \*\*Image available\*\*  
VIDEO SIGNAL DETECTOR

PUB. NO.: 57-196668 [JP 57196668 A]  
 PUBLISHED: December 02, 1982 (19821202)  
 INVENTOR(s): SHIOTANI YUICHI  
 SHINPO HIROYASU  
 YASUMOTO YOSHIO  
 APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD [000582] (A Japanese Company  
 or Corporation), JP (Japan)  
 APPL. NO.: 56-082266 [JP 8182266]  
 FILED: May 28, 1981 (19810528)  
 JOURNAL: Section: E, Section No. 160, Vol. 07, No. 45, Pg. 121,  
 February 23, 1983 (19830223)

#### ABSTRACT

... eliminating a part near the front ridge of a vertical synchronizing signal out of clamping pulses, in detecting the part near the front ridge of the vertical synchronizing signal of an DC regenerated...

...operations such as ghost detection, operation, generation and storage of weighting coefficient to control a transfer function of a transversal filter 5 so as to have an inverse transfer function of a transmission system due to...

... front ridge of a vertical synchronizing signal from the video signal with DC regeneration is detected and the clamp pulse is eliminated near the front ridge of the vertical synchronizing signal to be outputted.

30/3,K/4 (Item 1 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2007 The Thomson Corporation. All rts. reserv.

0012314726 - Drawing available  
 WPI ACC NO: 2002-256276/200230  
 XRPX Acc No: N2002-198271

Detection method for interfering signals by attenuation using notch filter and computing bandpass filter coefficients for incremental frequencies

Patent Assignee: HEINZL J (HEIN-I); JACOBSEN G (JACO-I); SHENOI K (SHEN-I); SYMMETRICOM INC (SYMM-N); YANG J (YANG-I)

Inventor: HEINZL J; JACOBSEN G; SHENOI K; YANG J

Patent Family (6 patents, 93 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
WO 2001077705	A2	20011018	WO 2001US11431	A	20010404	200230 B
AU 200153254	A	20011023	AU 200153254	A	20010404	200230 E
US 20020012411	A1	20020131	US 2000194798	P	20000405	200230 E
			US 2001802484	A	20010309	
US 6512803	B2	20030128	US 2000194798	P	20000405	200311 E
			US 2001802484	A	20010309	
US 20030112905	A1	20030619	US 2000194798	P	20000405	200341 E
			US 2001802484	A	20010309	
			US 2002294227	A	20021114	
US 6842498	B2	20050111	US 2000194798	P	20000405	200505 E
			US 2001802484	A	20010309	
			US 2002294227	A	20021114	

Priority Applications (no., kind, date): US 2002294227 A 20021114; US 2000194798 P 20000405; US 2001802484 A 20010309

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
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WO 2001077705 A2 EN 44 13  
National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BY  
BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL  
IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO  
NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
Regional Designated States, Original: AT BE CH CY DE DK EA ES FI FR GB GH  
GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW  
AU 200153254 A EN Based on OPI patent WO 2001077705  
US 20020012411 A1 EN Related to Provisional US 2000194798  
US 6512803 B2 EN Related to Provisional US 2000194798  
US 20030112905 A1 EN Related to Provisional US 2000194798  
Continuation of application US  
2001802484  
Continuation of patent US 6512803  
US 6842498 B2 EN Related to Provisional US 2000194798  
Continuation of application US  
2001802484  
Continuation of patent US 6512803

...output with the digital filter to obtain samples, computing the average  
of the samples and detecting peaks exceeding a threshold.

#### Original Publication Data by Authority

#### Original Abstracts:

...plurality of samples; and comparing the average to a threshold to detect  
peaks that exceed a threshold. An apparatus, comprising: an analog  
radio frequency circuit; an analog-to-digital converter coupled to...

...the average to a threshold to detect peaks that exceed a threshold. An  
apparatus, comprising: an analog radio frequency circuit; an  
analog-to-digital converter coupled to the analog radio frequency circuit  
...

...to detect peaks that exceed a threshold. An apparatus, comprising: an  
analog radio frequency circuit; an analog-to-digital converter coupled  
to the analog radio frequency circuit, the analog-to-digital converter...

...a threshold. An apparatus includes: an analog radio frequency circuit;  
an analog-to-digital converter coupled to the analog radio frequency  
circuit, the analog-to-digital converter providing a quantization level in  
...an analog radio frequency circuit; an analog-to-digital converter  
coupled to the analog radio frequency circuit, the analog-to-digital  
converter providing a quantization level in excess of 2 bits; a...

Claims: ...

..... What is claimed is: 1. An apparatus, comprising: an analog radio  
frequency circuit...

...What is claimed is: 1. A method, comprising detecting an  
interfering signal including: tuning a band pass filter over a frequency  
range; and

30/3,K/5 (Item 2 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
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0009410245 - Drawing available

WPI ACC NO: 1999-347058/199929

XRPX Acc No: N1999-259507

Phase detector of multi band phase locked loop used for digital telecommunication applications such as cellular telephone communication

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE)

Inventor: BATH G; BOJER J

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5909149	A	19990601	US 1997924723	A	19970829	199929 B

Priority Applications (no., kind, date): US 1997924723 A 19970829

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5909149	A	EN	9	4	

**Alerting Abstract** ...of divider circuit which is input is output of oscillator. The detector outputs a pulse which indicates difference in phase between the input signals, on UP output line (72) or DOWN output line (74...

...As the natural frequency of PLL is direct function of individual transfer functions of phase detector, loop filter, VC divider circuit, the natural frequency of loop is maintained at single point for any number of frequency bands...

30/3,K/6 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0007176947 - Drawing available

WPI ACC NO: 1995-218319/

Active vibration and noise controller for transfer function filter e.g. digital filter - has filter coefficient selector to choose coefficient of transfer function filter used for operating standard processing signal device according to results of fraction operator

Patent Assignee: NISSAN MOTOR CO LTD (NSMO)

Inventor: SATO S

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
JP 7129250	A	19950519	JP 1993271002	A	19931028	199529 B
JP 3227944	B2	20011112	JP 1993271002	A	19931028	200174 E

Priority Applications (no., kind, date): JP 1993271002 A 19931028

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
JP 7129250	A	JA	10	3	
JP 3227944	B2	JA	9		Previously issued patent JP 07129250

Active vibration and noise controller for transfer function filter e.g. digital filter - ...

...has filter coefficient selector to choose coefficient of transfer function filter used for operating standard processing signal device according to results of fraction operator

**Alerting Abstract** ...vibration source that generates noise and vibration that can interfere with the engine (30). A pulse generator (21) detects the initiation of vibration in the vibration source and outputs it as a reference signal...

...and the adaptive filter to generate the driving signal that operates the control engine. The filter exhibits the transfer function between the control engine and the residual signal from the vibration detector in the form...

30/3,K/7 (Item 4 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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0006322203 - Drawing available  
 WPI ACC NO: 1993-117878/  
 XRPX Acc No: N1993-089838

**Hands-free telephone with separate transmit and receive audio paths - has attenuator in each path controlled by comparator outputs from transmit and receive monitoring circuits**

Patent Assignee: MITEL CORP (MTLC)  
 Inventor: REESOR G; REESOR G J

Patent Family (9 patents, 18 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1993006679	A1	19930401	WO 1992CA412	A	19920925	199314 B
CA 2052351	A	19930328	CA 2052351	A	19910927	199324 E
EP 605549	A1	19940713	EP 1992920102	A	19920925	199427 E
			WO 1992CA412	A	19920925	
JP 6510889	W	19941201	WO 1992CA412	A	19920925	199507 E
			JP 1993505656	A	19920925	
US 5471528	A	19951128	WO 1992CA412	A	19920925	199602 E
			US 1994211181	A	19940323	
EP 605549	B1	19971203	EP 1992920102	A	19920925	199802 E
			WO 1992CA412	A	19920925	
DE 69223416	E	19980115	DE 69223416	A	19920925	199808 E
			EP 1992920102	A	19920925	
			WO 1992CA412	A	19920925	
CA 2052351	C	20000523	CA 2052351	A	19910927	200039 E
JP 3104072	B2	20001030	WO 1992CA412	A	19920925	200057 E
			JP 1993505656	A	19920925	

Priority Applications (no., kind, date): CA 2052351 A 19910927

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1993006679	A1	EN	29	10	
National Designated States,Original: DE GB JP KR NL US					
Regional Designated States,Original: AT BE CH DE DK ES FR GB GR IE IT LU MC NL SE					
CA 2052351	A	EN			
EP 605549	A1	EN	2	1	PCT Application WO 1992CA412 Based on OPI patent WO 1993006679
Regional Designated States,Original: DE FR GB IT					
JP 6510889	W	JA	1	1	PCT Application WO 1992CA412 Based on OPI patent WO 1993006679
US 5471528	A	EN	12	10	PCT Application WO 1992CA412 Based on OPI patent WO 1993006679

EP 605549	B1	EN	18	10	PCT Application WO 1992CA412
					Based on OPI patent WO 1993006679
Regional Designated States, Original: DE FR GB IT					
DE 69223416	E	DE			Application EP 1992920102
					PCT Application WO 1992CA412
					Based on OPI patent EP 605549
					Based on OPI patent WO 1993006679
CA 2052351	C	EN			
JP 3104072	B2	JA	11		PCT Application WO 1992CA412
					Previously issued patent JP 06510889
					Based on OPI patent WO 1993006679

**Original Titles:**

...Voice switched speakerphone with filters having exponential transfer function in the monitoring path...

**Alerting Abstract** ...a filter in the monitoring path for band limiting the audio signals, a rectifier, a peak level detector, and a speech detector for distinguishing speech from back ground noise. A switching comparator compares the outputs of the peak level detectors to produce directional control signals for the attenuators to determine which audio path has control...

**Original Publication Data by Authority**

**Original Abstracts:**

...circuit comprises a filter for band limiting the audio signals, a peak level detector receiving said band limited signals, and a speech detector for distinguishing speech from background noise. A switching comparator compares the outputs of the peak level detectors in the two monitoring circuits and produces directional control signals for said attenuator control means to determine which audio...

...band limiting the audio signals, a peak level detector receiving said band limited signals, and a speech detector for distinguishing speech from background noise. A switching comparator compares the outputs of the peak level detectors in the two monitoring circuits and produces directional control signals for said attenuator control means to determine which audio path has control. The circuit...

...a peak level detector receiving said band limited signals, and a speech detector for distinguishing speech from background noise. A switching comparator compares the outputs of the peak level detectors in the two monitoring circuits and produces directional control signals for said attenuator control means to determine which audio path has control. The circuit is prone to causing a...

**Claims:**

...a filter in the monitoring path for band limiting the audio signals, a rectifier, a peak level detector, and a speech detector for distinguishing speech from back ground noise. A switching comparator compares the outputs of the peak level detectors to produce directional control signals for the attenuators to determine which audio path has control...

...monitoring circuits (14, 15) comprising a rectifier (17), a peak level detector (18), and a speech detector (19); and a switching comparator (20) for comparing the outputs of the peak level detectors (18) in the two monitoring circuits (14, 15) and producing directional control signals

for said attenuator control means (13) to determine...

...background noise, a rectifier, a peak level detector, and a speech detector; a pair of low pass filters having a fast attack and slow decay with a transfer function of approximately inverted exponential...

...the outputs of the respective peak level detectors in the two monitoring circuits; and a switching comparator for comparing the outputs of said low pass filters to produce said directional control signal for...  
...receiving the output of the peak detector in the non-controlling audio path, the output of said low pass filter in the controlling audio path preventing the switching comparator from outputting the...

30/3,K/8 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0004038263

WPI ACC NO: 1987-137485/198720

Medium ultrasound attenuation versus frequency slope estimating method - operating directly on complex envelope of RF pulse-echo signal and using adaptive filter

Patent Assignee: NORTH AMERICAN PHILIPS CORP (PHIG)

Inventor: BARNES C W

Patent Family (6 patents, 5 countries)

Patent			Application			Update	
Number	Kind	Date	Number	Kind	Date		
EP 222450	A	19870520	EP 1986201940	A	19861107	198720	B
US 4676250	A	19870630	US 1985759801	A	19851107	198728	E
			US 1985795801	A	19851107		
CA 1263472	A	19891128				199001	E
IL 80494	A	19900429				199026	E
EP 222450	B	19911009	EP 1986201940	A	19861107	199141	E
DE 3681880	G	19911114				199147	E

Priority Applications (no., kind, date): US 1985759801 A 19851107; US 1985795801 A 19851107

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 222450	A	EN	8	4		
Regional Designated States,Original: DE FR GB						
US 4676250	A	EN	8			
CA 1263472	A	EN				
IL 80494	A	EN				
EP 222450	B	EN				
Regional Designated States,Original: DE FR GB						

**Alerting Abstract** ...to measure the local attenuation of tissues from pulse echo A-line data. The adaptive filter (60) with a transfer function which is the inverse of the tissue (25) undergoing examination operates on the complex envelope...

**Equivalent Alerting Abstract** ...envelope of the electrical signal is extracted the complex envelope is filtered using a complex filter with a controllable transfer function which can approximate the inverse of the transfer function of the propagation medium...

...frequency are integrated and the integrated values are applied as negative feedback to control the transfer function of the complex

filter , whereby the transfer function is maintained as the inverse of the transfer function of the medium...

#### Original Publication Data by Authority

#### Original Abstracts:

...attenuation of tissues from pulse echo A-line data. An adaptive filter (60) with a transfer function which is the inverse of the tissue (25) undergoing examination operates on the complex envelope (psio(n)) of the...

...data. An adaptive filter with a transfer function which is the inverse of the tissue undergoing examination operates on the complex envelope of the RF signal.

#### Claims:

...to measure the local attenuation of tissues from pulse echo A-line data. The adaptive filter (60) with a transfer function which is the inverse of the tissue (25) undergoing examination operates on the complex envelope...

...reflected from points within said medium and producing an electrical signal from said echoes;

characterized in that the method further comprises the steps of:

extracting the complex envelope of said electrical signal;

filtering the complex...

...transfer function of the propagation medium;

measuring the frequency deviations of the filtered complex envelope signals , said frequency deviations being a measure of the local slope of the ultrasound attenuation versus frequency curve of the medium

30/3,K/9 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0003131956

WPI ACC NO: 1984-227222/

Control system monitor for aircraft control system - includes filters for band limiting signals received from points in controlled system

Patent Assignee: UK SEC FOR DEFENCE (MINA)

Inventor: CORBIN M J; JONES J G

Patent Family (3 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
GB 2136153	A	19840912	GB 19833324	A	19830207	198437 B
			GB 19843047	A	19840206	
GB 2136153	B	19861022	GB 19833324	A	19830207	198643 E
			GB 19843047	A	19840206	
US 4646227	A	19870224	US 1984577885	A	19840207	198710 E

Priority Applications (no., kind, date): GB 19833324 A 19830207; GB 19843047 A 19840206

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
GB 2136153	A	EN	11	10	

Equivalent Alerting Abstract ...for detecting increments in the input and output signals by continuously band limiting each signal, detecting peak values of the band limited signals and correlating corresponding peak values...

...signals comprises an indirect measurement of signals at points in the system and includes a filter which is complementary to the transfer function of that part of the system providing the indirect measurement, such that the transfer function and complementary filter together provide signal band limiter...

30/3,K/10 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2007 The Thomson Corporation. All rts. reserv.

0002776433

WPI ACC NO: 1983-820552/

Line build-out circuit for digital data transmission - includes in its signal path two variable filters, each implemented by transconductance operational amplifier circuit

Patent Assignee: ROCKWELL INT CORP (ROCW)

Inventor: DYKE H J

Patent Family (1 patents, 1 countries)

Patent			Application			Update
Number	Kind	Date	Number	Kind	Date	
US 4413240	A	19831101	US 1981319840	A	19811109	198346 B
			US 1981319840	A	19811109	

Priority Applications (no., kind, date): US 1981319840 A 19811109

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 4413240	A	EN	7	3	

Alerting Abstract ...Each filter exhibits a transfer function pole with a frequency which is directly related to a control current applied to that...

...At a point in the signal path after the two variable filters, there is a peak detector which provides an output level proportional to the peak amplitude of the signal in the...

...From the peak detector output level, there is derived for each of the variable filters a control current, related...

#### Original Publication Data by Authority

#### Original Abstracts:

...signal path two variable filters, each implemented by a transconductance operational amplifier circuit. Each filter exhibits a transfer function pole with a frequency which is directly related to a control current applied to that filter...

...a point in the signal path after the two variable filters, there is a peak detector which provides an output level proportional to the peak amplitude of the signal in the path, and therefore proportional to the cable length. From the peak detector output level, there is derived for each of the variable filters a control current, related to...

30/3,K/11 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX

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0002230763

WPI ACC NO: 1981-E1226D/198118

Peak detector reducing noise effects - has passive filter with integrating transfer function whose impulse response is finite time duration sine pulse of one cycle

Patent Assignee: DATAPOINT CORP (DATA-N)

Inventor: LAWRENCE C E

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 4262257	A	19810414	US 197953545	A	19790629	198118 B

Priority Applications (no., kind, date): US 197953545 A 19790629

Peak detector reducing noise effects...

...has passive filter with integrating transfer function whose impulse response is finite time duration sine pulse of one cycle

#### Original Titles:

Peak detector

Alerting Abstract ...The peak detecting network utilises a passive integrating filter to translate the peaks of an input signal into...

...rejection and preventing the build-up of a DC component in the translation signal. The peak detecting network includes a sine pulse-forming filter comprised of a parallel cascade of a DC...

#### Original Publication Data by Authority

#### Original Abstracts:

A peak detecting network utilizes a passive integrating filter to translate the peaks of an input signal into zero crossings of a...

...build-up of a DC component in the translation signal. The peak detecting network includes a sine pulse-forming filter comprised of a parallel cascade of a DC shunt inductor, a plurality...

?

31/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2007 JPO & JAPIO. All rts. reserv.

08330530 \*\*Image available\*\*  
METHOD FOR DETECTING PEAK OF CORRELATION SIGNAL AND PULSE INPUT SIGNAL AND  
CORRELATION RECEIVER

PUB. NO.: 2005-078790 [JP 2005078790 A]  
PUBLISHED: March 24, 2005 (20050324)  
INVENTOR(s): NORTON DAVID ELLIOTT JR  
APPLICANT(s): QUANTUM CORP  
APPL. NO.: 2004-243526 [JP 2004243526]  
FILED: August 24, 2004 (20040824)  
PRIORITY: 03 652750 [US 2003652750], US (United States of America),  
August 28, 2003 (20030828)

METHOD FOR DETECTING PEAK OF CORRELATION SIGNAL AND PULSE INPUT SIGNAL AND  
CORRELATION RECEIVER

INVENTOR(s): NORTON DAVID ELLIOTT JR

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a correlation receiver for detecting a peak of a correlation signal.

SOLUTION: The correlation receiver includes a master peak detector for determining whether an amplitude of a pulse of the...

31/3,K/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2007 The Thomson Corporation. All rts. reserv.

0014912408 - Drawing available  
WPI ACC NO: 2005-260076/200527  
XRPX Acc No: N2005-213409  
Method of detecting peaks of correlation signal for tracking movement of magnetic tape in magnetic tape drive, involves determining whether amplitude of pulse of correlation signal exceeds amplitude of prior peak  
Patent Assignee: QUANTUM CORP (QUAN)  
Inventor: NORTON D E

Patent Family (3 patents, 35 countries)

Patent			Application			Update
Number	Kind	Date	Number	Kind	Date	
US 20050046987	A1	20050303	US 2003652750	A	20030828	200527 B
EP 1517305	A1	20050323	EP 2004254871	A	20040813	200527 E
JP 2005078790	A	20050324	JP 2004243526	A	20040824	200527 E

Priority Applications (no., kind, date): US 2003652750 A 20030828

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20050046987	A1	EN	10	7	
EP 1517305	A1	EN			

Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI  
FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR  
JP 2005078790 A JA 12

File 2:INSPEC 1898-2007/Jan W3  
(c) 2007 Institution of Electrical Engineers

File 6:NTIS 1964-2007/Jan W4  
(c) 2007 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1884-2007/Jan W3  
(c) 2007 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2007/Jan W3  
(c) 2007 The Thomson Corp

File 35:Dissertation Abs Online 1861-2007/Jan  
(c) 2007 ProQuest Info&Learning

File 56:Computer and Information Systems Abstracts 1966-2007/Jan  
(c) 2007 CSA.

File 57:Electronics & Communications Abstracts 1966-2007/Jan  
(c) 2007 CSA.

File 65:Inside Conferences 1993-2007/Jan 30  
(c) 2007 BLDSC all rts. reserv.

File 94:JICST-EPlus 1985-2007/Jan W4  
(c)2007 Japan Science and Tech Corp(JST)

File 95:TEME-Technology & Management 1989-2007/Jan W4  
(c) 2007 FIZ TECHNIK

File 99:Wilson Appl. Sci & Tech Abs 1983-2007/Dec  
(c) 2007 The HW Wilson Co.

File 144:Pascal 1973-2007/Jan W3  
(c) 2007 INIST/CNRS

File 239:Mathsci 1940-2007/Feb  
(c) 2007 American Mathematical Society

File 256:TecInfoSource 82-2007/Aug  
(c) 2007 Info.Sources Inc

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 2006 The Thomson Corp

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group

File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning

File 483:Newspaper Abs Daily 1986-2007/Jan 31  
(c) 2007 ProQuest Info&Learning

File 248:PIRA 1975-2007/Jan W1  
(c) 2007 Pira International

Set	Items	Description
S1	1448	CORRELATION()RECEIVER??
S2	41615	DETECT??? (3N) (PULSE?? OR PEAK??)
S3	2253	CORRELATION() SIGNAL??
S4	51666	(BANDPASS?? OR BAND() PASS) (3N) FILTER??
S5	2919	BPF
S6	84	S2 (3N) DEMODULAT?
S7	0	S2 (3N) (SERVO() (TRACK?? OR MARK??))
S8	1007821	FILTER?? OR (CORRELAT? OR ANTI() ALIAS) () (FILTER?? OR RECEI- VER?? OR SIGNAL??) OR CORRELATOR??
S9	155738	TRANSFER() FUNCTION??
S10	37325	MAGNETIC() TAPE??
S11	2506	AU=(NORTON, D? OR NORTON D?) OR DAVID(2N)NORTON
S12	45	QUANTUM() CORPORATION?
S13	5	S1 AND S2
S14	4	RD (unique items)
S15	10	S1 AND S9
S16	10	S15 NOT S14
S17	5	RD (unique items)
S18	24	S3 AND S2
S19	0	S18 AND (S4 OR S5)
S20	0	S18 AND S9

S21	0	S18 AND S10
S22	8	S18 NOT PY>2003
S23	8	S22 NOT (S14 OR S17)
S24	0	S6 AND (S4 OR S5)
S25	1	S6 AND S10
S26	8	DEMOMULAT? AND (SERVO() (TRACK?? OR MARK??))
S27	4	S26 NOT PY>2003
S28	4	RD (unique items)
S29	49	DETECT? AND (SERVO() (TRACK?? OR MARK??))
S30	0	S29 AND (S4 OR S5)
S31	0	S29 AND S9
S32	5	S29 AND S10
S33	3	RD (unique items)
S34	28404	S8 AND S9
S35	46	S34 AND S2
S36	7	S35 AND (S4 OR S5)
S37	7	RD (unique items)
S38	14	S34 AND S10
S39	0	S38 AND DEMOMULAT?
S40	5	S38 AND (SERVO() (TRACK?? OR MARK??))
S41	1	RD (unique items)
S42	9	S38 NOT PY>2003
S43	9	S42 NOT S41
S44	9	RD (unique items)
S45	0	S11 AND S1
S46	10	S11 AND S8
S47	10	S46 NOT PY>2003
S48	6	RD (unique items)
S49	0	S12 AND S8

14/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

09127709 INSPEC Abstract Number: B2004-11-6150E-023  
Title: Performance comparison between 2D correlation and chip-level receivers for OCDMA  
Author(s): Shaw Wei Kok; Ying Zhang; Changyun Wen; Yeng Chai Soh  
Author Affiliation: Sch. of Electr. & Electron. Eng., Nanyang Technol. Univ., Singapore, Singapore  
Conference Title: The 2004 47th Midwest Symposium on Circuits and Systems (IEEE Cat. No.04CH37540) Part vol.2 p.II-533-6 vol.2  
Publisher: IEEE, Piscataway,NJ, USA  
Publication Date: 2004 Country of Publication: USA 3 vol. (1i+1500) pp.  
ISBN: 0 7803 8346 X Material Identity Number: XX-2004-02028  
U.S. Copyright Clearance Center Code: 0 7803 8346 X/2004/\$20.00  
Conference Title: The 2004 47th Midwest Symposium on Circuits and Systems  
Conference Date: 25-28 July 2004 Conference Location: Hiroshima, Japan  
Language: English  
Subfile: B  
Copyright 2004, IEE

...Abstract: utilizing 2D signature codes, an AND detector gives a better BER performance than a SUM detector when the optical pulses are used in detection .

...Identifiers: 2D correlation receivers ;

14/3,K/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

06766061 INSPEC Abstract Number: A9801-4260K-024  
Title: Wide bandwidth DIAL system - analysis and sensitivity studies  
Author(s): Fastig, S.; Paiss, I.; Kleinman, M.  
Author Affiliation: Non-linear Opt. Group, SOREQ, NRC, Yavne, Israel  
Conference Title: Advances in Atmospheric Remote Sensing with Lidar. Selected Papers of the 18th International Laser Radar Conference (ILRC) p.459-62  
Editor(s): Ansmann, A.; Neuber, R.; Rairoux, P.; Wandinger, U.  
Publisher: Springer-Verlag, Berlin, Germany  
Publication Date: 1996 Country of Publication: Germany xxi+590 pp.  
ISBN: 3 540 61887 2 Material Identity Number: XX97-01162  
Conference Title: Advances in Atmospheric Remote Sensing with Lidar. Selected Papers of the 18th International Laser Radar Conference (ILRC)  
Conference Date: 22-26 July 1996 Conference Location: Berlin, Germany  
Language: English  
Subfile: A  
Copyright 1997, FIZ Karlsruhe

...Abstract: be a few times wider then the absorption linewidth without significant reduction of the system detection sensitivity. The pulse to pulse wavelength and line-shape stability requirements are less severe due to the laser...

...Identifiers: gas correlation receiver ;

14/3,K/3 (Item 3 from file: 2)  
DIALOG(R)File 2:INSPEC

(c) 2007 Institution of Electrical Engineers. All rts. reserv.

0000950234 INSPEC Abstract Number: 1968B14283

Title: Optimum waveforms for correlation detection in the sonar environment: noise-limited conditions

Author(s): Kincaid, T.G.

Journal: Journal of the Acoustical Society of America 43 2 p. 258-268

Publication Date: Feb. 1968 Country of Publication: USA

Language: English

Subfile: B

Copyright 2004, IEE

...Abstract: under development attempt to discover the presence of an underwater target by transmitting an acoustic pulse and detecting the echo with a correlation receiver. This receiver correlates its input with time and frequency translates of a stored reference waveform...

... random attenuations, time delays, and frequency shifts. Under these conditions, the detection capability of the correlation receiver is shown to be dependent upon the transmitted and reference waveforms. Necessary and sufficient conditions...

14/3,K/4 (Item 1 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

(c) 2007 Elsevier Eng. Info. Inc. All rts. reserv.

11040366 E.I. No: EIP06229904677

Title: Data detection for UWB transmitted reference systems with inter-pulse interference

Author: Xu, Zhengyuan; Sadler, Brian M.; Tang, Jin

Corporate Source: Dept. of Electrical Engineering University of California, Riverside, CA 92521, United States

Conference Title: 2005 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP '05

Conference Location: Philadelphia, PA, United States Conference Date: 20050318-20050323

E.I. Conference No.: 67354

Source: ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings 2005 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP '05 - Proceedings - Audio and ElectroacousticsSignal Processing for Communication v III 2005. (IEEE cat n 05CH37625)

Publication Year: 2005

CODEN: IPRODJ ISSN: 1520-6149

Language: English

...Abstract: scheme transmits an un-modulated pulse and a delayed modulated pulse each time. Then a correlation receiver uses the former to demodulate the latter. However, to guarantee satisfactory detection performance in severe...

Identifiers: Data detection ; Inter-pulse interference; Ultra wideband ; Transmitted reference; Correlation receiver

17/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

05717213 INSPEC Abstract Number: B9409-6260-003  
Title: A theoretical analysis of the performance of code division multiple access communications over multimode optical fiber channels-part I: transmission and detection  
Author(s): Walker, E.L.  
Author Affiliation: Dept. of Electr. & Comput. Eng., West Virginia Univ., Morgantown, WV, USA  
Journal: IEEE Journal on Selected Areas in Communications vol.12, no.4 p.751-61  
Publication Date: May 1994 Country of Publication: USA  
CODEN: ISACEM ISSN: 0733-8716  
U.S. Copyright Clearance Center Code: 0733-8716/94/\$04.00  
Language: English  
Subfile: B

...Abstract: techniques. The transmission channel model employed is a lossless linear system approximation of the field transfer function for the alpha -profile multimode optical fiber. Due to channel model complexity, a correlation receiver model employing a suboptimal receive filter was used in calculating the peak output signal at...

...Identifiers: field transfer function ; ...

... correlation receiver model

17/3,K/2 (Item 1 from file: 6)  
DIALOG(R)File 6:NTIS  
(c) 2007 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

0610351 NTIS Accession Number: AD-823 637/4/XAB  
On the Analysis of a Cross- Correlation Receiver for the Detection of Noise-Like Signals  
(Final rept. Jul 66-Jul 67)  
Wolf, J. K. ; Meyer, C. N.  
Rome Air Development Center Griffiss AFB N Y  
Corp. Source Codes: 309050  
Report No.: RADC-TR-67-485  
Oct 67 61p  
Journal Announcement: GRAI7709  
Distribution limitation now removed. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.  
NTIS Prices: PC A04/MF A01

On the Analysis of a Cross- Correlation Receiver for the Detection of Noise-Like Signals

Descriptors: \*Information theory; \*Correlators; \*Pulse communications; Digital systems; White noise; Correlation techniques; Signals; Decision theory; Transfer functions ; Statistical functions; Communication systems; Electromagnetic wave filters; Mathematical models; Detection

17/3,K/3 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
(c) 2007 Elsevier Eng. Info. Inc. All rts. reserv.

10719749 E.I. No: EIP05479490031

Title: Fluctuations of noiselike signals reflected from a rough surface at the output of a correlation receiver

Author: Gulin, E.P.

Corporate Source: Andreev Acoustics Institute Russian Academy of Sciences, Moscow, 117036, Russian Federation

Source: Acoustical Physics v 51 n 6 2005. p 644-652

Publication Year: 2005

ISSN: 1063-7710

Language: English

Title: Fluctuations of noiselike signals reflected from a rough surface at the output of a correlation receiver

...Abstract: considered. The variance and temporal correlation function are calculated for the output effect of a correlation receiver for different ratios between the averaging time and the time correlation interval of fluctuations, the band width of the radiated signal, and the frequency correlation interval of the transfer function fluctuations. copy 2005 Pleiades Publishing, Inc. 27 Refs.

Descriptors: \*Acoustic signal processing; Acoustic noise; Surface roughness; Signal receivers; Correlation theory; Transfer functions

Identifiers: Noiselike signals; Cross-correlation function; Temporal correlation functions; Transfer function fluctuations

17/3,K/4 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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785540 ORDER NO: AAD82-17071

A THEORETICAL ANALYSIS OF THE PERFORMANCE OF CODE-DIVISION - MULTIPLE-ACCESS DIGITAL COMMUNICATIONS OVER OPTICAL FIBER CHANNELS

Author: WALKER, ERNEST LEE

Degree: PH.D.

Year: 1982

Corporate Source/Institution: NORTH CAROLINA STATE UNIVERSITY AT RALEIGH (0155)

Source: VOLUME 43/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 825. 99 PAGES

...frequency. The signals are then combined, intensity modulated to the optical frequency, and transmitted to correlation receivers via an optical fiber channel. A channel model is defined for the alpha-profile class of multimode optical fibers, and the field transfer function is found using a linear system approximation. The performance of the system, using bit error...

17/3,K/5 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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04747847 JICST ACCESSION NUMBER: 94A0325509 FILE SEGMENT: JICST-E

A Wide Band Channel Sounder with 5ns Delay Resolution.

Denshi Joho Tsushin Gakkai Taikai Koen Ronbunshu(Proceedings of the IEICE

General Conference (Institute of Electronics, Information and

Communication Engineers), 1994, VOL.1994,NO.Shunki Pt 2, PAGE.2.455,

FIG.2, REF.6

JOURNAL NUMBER: G0508AEP

UNIVERSAL DECIMAL CLASSIFICATION: 621.317.799 681.3:654  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Conference Proceeding  
ARTICLE TYPE: Short Communication  
MEDIA TYPE: Printed Publication

...DESCRIPTORS: transfer function ; ...

... correlation receiver ;  
?

23/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

08937335 INSPEC Abstract Number: B2004-05-7320E-010

Title: A wavelet-based method for the measuring particulate velocity by an active electrostatic sensor

Author(s): Jian Qiu Zhang; Ya Jun Guo; Yi Shen

Author Affiliation: Dept. of Electron. Eng., Fudan Univ., Shanghai, China

Conference Title: Proceedings of the 20th IEEE Instrumentation Technology Conference (Cat. No.03CH37412) Part vol.2 p.1471-6 vol.2

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2003 Country of Publication: USA 2 vol.xlix+1677 pp.

ISBN: 0 7803 7705 2 Material Identity Number: XX-2003-02158

U.S. Copyright Clearance Center Code: 0 7803 7705 2/2003/\$17.00

Conference Title: 2003 Instrumentation and Measurement Technology Conference (IMTC 2003)

Conference Sponsor: IEEE Instrum. & Meas. Soc

Conference Date: 20-22 May 2003 Conference Location: Vail, CO, USA

Language: English

Subfile: B

Copyright 2004, IEE

...Abstract: is presented. The main motivation behind this paper is to avoid the problems which cross-correlation signal processing techniques exist, i.e. they are sensitive to the distortion of the output waveforms and the variance of the output pulse width from the detecting electrode of the sensor. Instead of cross-correlation techniques, the signal rising edges from the...

23/3,K/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

02194946 INSPEC Abstract Number: A78042290, B78025021

Title: Optical cross-correlation of complex exponentiated input data

Author(s): Gopfert, W.M.; Read, A.A.

Author Affiliation: Dept. of Electrical Engng., Iowa State Univ., Ames, IA, USA

Journal: Optical Engineering vol.16, no.6 p.605-9

Publication Date: Nov.-Dec. 1977 Country of Publication: USA

CODEN: OPEGAR ISSN: 0091-3286

Language: English

Subfile: A B

Abstract: Without considerable preprocessing, positive correlation peak detection is not always readily achievable. These limitations are largely overcome by complex exponentiation of the...

...The cross-correlation function of these complex exponentiated inputs has two striking properties. One, the correlation signal approaches a delta function. Two, the correlation signal is not affected by a difference in bias levels (average densities) of the two inputs...

...differences are used for detecting correlation. This means constant phase shifts will not contaminate the correlation signal. Hence, extensive data preprocessing is not required. One- and two-dimensional digital simulation experiments were...

... computer generated random numbers. Random noise distortions were added to study their impact on the correlation - signal shape and intensity. The results indicate that complex exponentiation provides a means to obtain extremely...

...Identifiers: positive correlation peak detection ;

23/3,K/3 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
(c) 2007 Elsevier Eng. Info. Inc. All rts. reserv.

09444500 E.I. No: EIP03297542962

Title: A wavelet-based method for measuring particulate velocity by an active electrostatic sensor

Author: Zhang, Jian Qiu; Guo, Ya Jun; Shen, Yi  
Corporate Source: Dept. of Electronic Engineering Fudan University, Shanghai 200433, China  
Conference Title: Proceedings of the 20th IEEE Information and Measurement Technology Conference  
Conference Location: Vail, CO, United States Conference Date: 20030520-20030522

E.I. Conference No.: 61134  
Source: Conference Record - IEEE Instrumentation and Measurement Technology Conference v 2 2003. p 1471-1476 (IEEE cat n 03CH37412)  
Publication Year: 2003  
CODEN: CRIIE7  
Language: English

...Abstract: is presented. The main motivation behind this paper is to avoid the problems which cross-correlation signal processing techniques exist, i.e. they are sensitive to the distortion of the output waveforms and the variance of the output pulse width from the detecting electrode of the sensor. Instead of cross-correlation techniques, the signal rising edges from the...

23/3,K/4 (Item 2 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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05736282 E.I. Monthly No: EI8905044225

Title: Injection luminescence decay measurement using an opto-electronically cross-correlated Ge-APD.

Author: Rheinlaender, B.; Nevermann, P.; Berndt, K.; Palme, D.  
Corporate Source: Karl-Marx-Univ, Leipzig, East Ger  
Source: Optics Communications v 69 n 5-6 Jan 15 1989 p 374-378  
Publication Year: 1989  
CODEN: OPCOB8 ISSN: 0030-4018  
Language: English

...Abstract: one of these periods the bias pulses are time-shifted to prevent a non-zero correlation signal. Luminescence pulses can be detected with a sensitivity in the order of 400 photons per pulse at 1 MHz repetition...

23/3,K/5 (Item 1 from file: 56)  
DIALOG(R)File 56:Computer and Information Systems Abstracts

(c) 2007 CSA. All rts. reserv.

0000479411 IP ACCESSION NO: 200609-32-053850  
Adaptive CFAR detection in compound-Gaussian clutter with circulant  
covariance matrix

Conte, E; De Maio, A; Ricci, G

IEEE Signal Processing Letters, v 7, n 3, p 63-65, Mar. 2000  
PUBLICATION DATE: 2000

PUBLISHER: Institute of Electrical and Electronics Engineers, Inc., 445  
Hoes Ln, Piscataway, NJ, 08854-1331  
COUNTRY OF PUBLICATION: USA  
PUBLISHER URL: <http://ieee.org>  
PUBLISHER EMAIL: [inspec@ieee.org](mailto:inspec@ieee.org)

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
ISSN: 1070-9908  
ELECTRONIC ISSN: NO  
FILE SEGMENT: Computer & Information Systems Abstracts  
ABSTRACT:

We present a fully adaptive detector of coherent pulse trains  
embedded in compound-Gaussian clutter, whose covariance matrix is a  
circulant one. Remarkably, the...

DESCRIPTORS: Covariance matrix; Clutter; Trains; Receivers; Acceptability;  
Temporal logic; Non-Gaussian; Coherence; Noise; Detectors; Correlation ;  
Signal processing

23/3,K/6 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
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03122060 JICST ACCESSION NUMBER: 97A0348929 FILE SEGMENT: JICST-E  
Prescaled Timing Extraction Phase Lock Loop Based on Four-Wave Mixing in a  
Traveling-Wave Laser Diode Amplifier.

KAMATANI OSAMU (1); KAWANISHI SATOKI (1)  
(1) Nippon Telegr. and Teleph. Corp.  
Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report  
(Institute of Electronics, Information and Communication Engineers),  
1997, VOL.96,NO.538(OCS96 100-125), PAGE.65-70, FIG.11, REF.17

JOURNAL NUMBER: S0532BBG  
UNIVERSAL DECIMAL CLASSIFICATION: 535.37/.5  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Journal  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

...ABSTRACT: phase detector, and the cross-correlation component between  
the optical signal and an optical clock pulse train is detected as  
a four-wave-mixing(FWM) signal generated in the TW-LDA. A timing clock  
...

...extracted as a prescaled electrical clock from a randomly modulated TDM  
optical signal. The cross- correlation signal to noise ratio is  
analyzed for the phase noise characteristics, effects of signal mark

ratio...

23/3,K/7 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal  
(c) 2007 INIST/CNRS. All rts. reserv.

14321869 PASCAL No.: 99-0529708  
Ultrasensitive cross-correlation electrophoresis on microchip devices  
FISTER J C III; JACOBSON S C; RAMSEY J M  
Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, Tennessee  
37831-6142, United States  
Journal: Analytical chemistry : (Washington, DC), 1999, 71 (20)  
4460-4464  
Language: English

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...injection sequence were similar 17 for dichlorofluorescein and similar 6 for fluorescein. In contrast, neither peak was detected in a conventional electropherogram obtained on the microchip. Detection limits estimated from a correlogram derived...

English Descriptors: Optimization; Operating conditions; Cross correlation  
; Signal to noise ratio; Analysis method; Separation method;  
Microminiaturization; Microequipment; Chip; Capillary electrophoresis;  
Zone electrophoresis; Fluorescence...

23/3,K/8 (Item 2 from file: 144)  
DIALOG(R)File 144:Pascal  
(c) 2007 INIST/CNRS. All rts. reserv.

01853979 PASCAL No.: 78-0411169  
EN RUSSE.  
(DETECTION DES SIGNAUX DE BRUIT SUR UN FOND DE PERTURBATIONS CORRELEES,  
LORS D'UN TRAITEMENT MULTICANAL)  
SHELUKHIN O I  
Journal: IZVEST. VYSSH. UCHEBN. ZAVED., RADIOELEKTRON., 1978, 21 (5)  
98-100  
Language: RUSSIAN

English Descriptors: NOISE; PULSE NOISE; CORRELATION ; SIGNAL DETECTION  
; MULTICHAN NEL TRANSMISSION  
?

25/3,K/1 (Item 1 from file: 6)  
DIALOG(R)File 6:NTIS  
(c) 2007 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

0088579 NTIS Accession Number: AD-612 233/XAB

A Simple Method for Magnetic Tape Recording of Bioelectric Potentials  
Handler, P. ; Garcia-Austt, E.  
Instituto de Neurologia Montevideo (Uruguay)  
Corp. Source Codes: 888888888  
Report No.: AFOSR-2741  
15 Nov 60 2p  
Document Type: Journal article  
Journal Announcement: USGRDR6508  
Pub. in Electroencephalography and Clinical Neurophysiology (Canada) v13  
p800-2 1961 (Copies available only to DDC users).  
NTIS Prices: Not available NTIS

A Simple Method for Magnetic Tape Recording of Bioelectric Potentials  
...the IIID, a recorder (Ampex model 601, 7 1/2 in/sec, full-track), a  
demodulator of the peak - detection type using a series diode 1N34 and  
an RC circuit with a time-constant of...

Descriptors: \*MAGNETIC RECORDING SYSTEMS; \*MEDICAL EQUIPMENT; MAGNETIC  
TAPE ; ELECTROENCEPHALOGRAPHY; ELECTROCARDIOGRAPHY; ELECTRONIC SWITCHES;  
ELECTRICAL IMPEDANCE; DIODES (SEMICONDUCTOR); CORRELATORS; DEMODULATORS;  
Reprints

28/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

02578960 INSPEC Abstract Number: B80044334, C80029342  
Title: Flexible disk file recalibrate procedure  
Author(s): Case, W.J.P.; Chaplin, R.  
Author Affiliation: IBM Corp., Armonk, NY, USA  
Journal: IBM Technical Disclosure Bulletin vol.22, no.11 p.5103-4  
Publication Date: April 1980 Country of Publication: USA  
CODEN: IBMTAA ISSN: 0018-8689  
Language: English  
Subfile: B C

Abstract: The format on the disk is that required for a sector servo track -following disk file. As tracks are crossed, the signal obtainable from a position error demodulator would be a triangular waveform passing through zero at each on-track position. With this...  
...Descriptors: demodulators ;  
Identifiers: position error demodulator ;

28/3,K/2 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2007 The Thomson Corp. All rts. reserv.

09984206 Genuine Article#: 471CW No. References: 3  
Title: Demodulation of servo tracking signals printed with a lithographically patterned master disk  
Author(s): Ishida T (REPRINT) ; Miyata K; Komura N; Takaoka T  
Corporate Source: Matsushita Elect Ind Co Ltd,HD Dev Ctr,3-1-1 Yagumo Nakamachi/Moriguchi/Osaka 5708501/Japan/ (REPRINT); Matsushita Elect Ind Co Ltd,HD Dev Ctr,Moriguchi/Osaka 5708501/Japan/; Matsushita Kotobuki Elect Ind Ltd,Corp R&D Ctr,Saijo/Ehime 7938510/Japan/  
Journal: IEEE TRANSACTIONS ON MAGNETICS, 2001, V37, N4,1 (JUL), P1412-1415  
ISSN: 0018-9464 Publication date: 20010700  
Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST, NEW YORK, NY 10017-2394 USA  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: Demodulation of servo tracking signals printed with a lithographically patterned master disk  
Abstract: Demodulation of the servo tracking signals magnetically printed on hard disks by using a lithographically patterned...

28/3,K/3 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2007 Japan Science and Tech Corp(JST). All rts. reserv.

04928140 JICST ACCESSION NUMBER: 01A0675872 FILE SEGMENT: JICST-E  
Servo Track Writing of HDDs by Magnetic Printing Technology with a Lithographically Patterned Master Disk.  
MIYATA KEIZO (1); ISHIDA TATSUAKI (1); KOMURA NOBUYUKI (1); UENO YOSHIHIRO (1); KOSO HIROSHI (1); TAKAOKA TETSURO (2)  
(1) Matsushita Electr. Ind. Co., Ltd.; (2) Matsushita-Kotobuki Electron. Ind., Ltd.  
Nippon Kikai Gakkai Joho, Chino, Seimitsu Kiki Bumon Koenkai Koen Ronbunshu , 2001, VOL.2001, PAGE:157-161, FIG.10, TBL.2, REF.5  
JOURNAL NUMBER: L1518AAO

UNIVERSAL DECIMAL CLASSIFICATION: 681.327  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Conference Proceeding  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

Servo Track Writing of HDDs by Magnetic Printing Technology with a  
Lithographically Patterned Master Disk.  
ABSTRACT: Demodulation of the servo tracking signals magnetically printed  
on hard disks by using a lithographically patterned...

28/3,K/4 (Item 2 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2007 Japan Science and Tech Corp(JST). All rts. reserv.

03534132 JICST ACCESSION NUMBER: 98A0441655 FILE SEGMENT: JICST-E  
A Study in the Error of Position Signal Demodulation by Phase Detection  
for Hard Disk Drives.  
YAMADA TOMOYOSHI (1); UEMATSU YUKIHIRO (1)  
(1) Fujitsu Ltd.  
Nippon Kikai Gakkai Tsujo Sokai Koenkai Koen Ronbunshu(Proceedings of the  
International Sessions JSME Spring Annual Meeting), 1998, VOL.75th,NO.4  
, PAGE.190-191, FIG.11, REF.3  
JOURNAL NUMBER: X0588AAU  
UNIVERSAL DECIMAL CLASSIFICATION: 681.327  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Conference Proceeding  
ARTICLE TYPE: Short Communication  
MEDIA TYPE: Printed Publication

A Study in the Error of Position Signal Demodulation by Phase Detection  
for Hard Disk Drives.

...ABSTRACT: drives, an accurate position error signal(PES) is one of the  
most important factors. PES demodulation by phase detection has the  
advantages of good linearity without calibration. This report describes  
nonlinearity of phase demodulated PES which is influenced by the  
parameters such as the head core width, number of servo track  
partitions, side-erasure width and side-fringes. Also by increase in  
number of track partitions, the PES demodulation by phase detection  
has an effect that reduces its repeatable component caused by  
non-repeatable disturbances in servo - track writing process. (author  
abst.)

...DESCRIPTORS: demodulation;  
?

33/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

07002444 INSPEC Abstract Number: B9810-3120B-022, C9810-5320C-001  
Title: Timing-based track-following servo for linear tape systems  
Author(s): Barrett, R.C.; Klaassen, E.H.; Albrecht, T.R.; Jaquette, G.A.;  
Eaton, J.H.  
Author Affiliation: IBM Almaden Res. Center, San Jose, CA, USA  
Journal: IEEE Transactions on Magnetics Conference Title: IEEE Trans.  
Magn. (USA) vol.34, no.4, pt.1 p.1872-7  
Publisher: IEEE,  
Publication Date: July 1998 Country of Publication: USA  
CODEN: IEMGAQ ISSN: 0018-9464  
SICI: 0018-9464(199807)34:4:1L.1872:TBTF;1-W  
Material Identity Number: I101-98006  
U.S. Copyright Clearance Center Code: 0018-9464/98/\$10.00  
Conference Title: Seventh Joint Magnetism and Magnetic Materials-Intermag  
Conference  
Conference Date: 6-9 Jan. 1998 Conference Location: San Francisco, CA,  
USA  
Language: English  
Subfile: B C  
Copyright 1998, IEE  
...Descriptors: magnetic tape storage...

33/3,K/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

02333967 INSPEC Abstract Number: C79012658  
Title: Detecting erroneous servo in record storage apparatus  
Author(s): Brock, G.W.; Kalthoff, C.H.  
Author Affiliation: IBM Corp., Armonk, NY, USA  
Journal: IBM Technical Disclosure Bulletin vol.21, no.3 p.932-3  
Publication Date: Aug. 1978 Country of Publication: USA  
CODEN: IBMTAA ISSN: 0018-8689  
Language: English  
Subfile: C

Title: Detecting erroneous servo in record storage apparatus  
Abstract: The present error detection has particular significance to  
those systems employing sector servo; that is, where the servo data...

...interleaved with recorded information data. The described techniques are  
equally applicable to apparatus employing continuous servo tracks.

Descriptors: error detection ; ...

... magnetic tape storage  
...Identifiers: error detection ; ...  
...continuous servo tracks

33/3,K/3 (Item 3 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

01810591 INSPEC Abstract Number: C75022923  
Title: Averaging skew detection in a rotating-head recorder

Author(s): Arter, N.K.; Detzi, W.A.; Leggate, J.W.  
Author Affiliation: IBM, Armonk, NY, USA  
Journal: IBM Technical Disclosure Bulletin vol.18, no.7 p.33-4  
Publication Date: June 1975 Country of Publication: USA  
CODEN: IBMTAA ISSN: 0018-8689  
Language: English  
Subfile: C

Title: Averaging skew detection in a rotating-head recorder

Abstract: A transverse data track on magnetic tape has servo tracks at each end of the data track. Using these tracks a method is described for averaging skew detection in a rotating-head recorder.

Descriptors: magnetic tape equipment

Identifiers: skew detection ; ...

... magnetic tape ; ...

... servo tracks ; ...

...rotating head magnetic tape unit

?

37/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

08936061 INSPEC Abstract Number: B2004-05-7210N-007  
Title: Resolution filters and form factor in spectrum analysers  
Journal: Revista Espanola de Electronica no.580 p.52-4  
Publisher: Ediciones Tecnicas Rede,  
Publication Date: March 2003 Country of Publication: Spain  
CODEN: RVEEBT ISSN: 0482-6396  
SICI: 0482-6396(200303)580L:52:RFFF;1-#  
Material Identity Number: R161-2003-007  
Language: Spanish  
Subfile: B  
Copyright 2004, IEE

Title: Resolution filters and form factor in spectrum analysers  
...Abstract: on the complete spectrum analyser screen, the entry signal is previously swept by the IF filter and multiplied by the transfer function of the filter. For reasons of simplification, the filter bars a fixed signal, both representations being the same. The spectral resolution of the analyser is determined mainly by the bandwidth resolution, that is the bandwidth of the IF filter. The bandwidth of the IF (bandwidth of 3dB) corresponds with the minimum frequency distance required...

...equal level via an inclination of approximately 3dB on the screen when a sample or peak detector is used.

Descriptors: band - pass filters ; ...

... peak detectors ; ...

... transfer functions  
Identifiers: resolution filters ; ...

... filter transfer function ; ...

... peak detector ; ...

...IF filter bandwidth

37/3,K/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

02747313 INSPEC Abstract Number: A81093597  
Title: Temporal impulse and step responses of the human eye obtained psychophysically by means of a drift-correcting perturbation technique  
Author(s): Roufs, J.A.J.; Blommaert, F.J.J.  
Author Affiliation: Inst. for Perception Res., Eindhoven, Netherlands  
Journal: Vision Research vol.21, no.8 p.1203-21  
Publication Date: 1981 Country of Publication: UK  
CODEN: VISRAM ISSN: 0042-6989  
Language: English  
Subfile: A

...Abstract: perturbation technique. The approach is based on only two postulated systems properties: quasi-linearity and peak detection. A special feature of the technique is its strong reduction of the concealing effect of...

...As a consequence the threshold of any fast-changing retinal illumination should be predictable. The transfer function of the system responding to a 1 degrees stimulus shows a band - pass filter type of processing for transients, confirming quantitatively earlier findings. In contrast, a foveal point source...

... impulse and step responses appear also to be linearly related, gives rise to low-pass filter action of the system.

...Identifiers: transfer function ; ...

... band - pass filter ;

37/3,K/3 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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0996952 NTIS Accession Number: AD-A121 443/6

A Representation for Visual Information

(Interim rept)

Crowley, J. L.

Carnegie-Mellon Univ., Pittsburgh, PA. Robotics Inst.

Corp. Source Codes: 005343035; 412463

Report No.: CMU-RI-TR-82-7

Nov 81 238p

Languages: English Document Type: Thesis

Journal Announcement: GRAI8305

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NTIS Prices: PC A11/MF A01

... description of an image from its Sampled DOLP transform. The symbols in this description are detected by detecting local peaks and ridges in each band-pass image, and among all of the band-pass image...

Descriptors: \*Image processing; \*Pattern recognition; Visual perception; Bandpass filters ; Low pass filters ; Digital simulation; Algorithms; Fast fourier transforms; Transfer functions ; Two dimensional; Three dimensional; Theses; Man machine systems

37/3,K/4 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

(c) 2007 Elsevier Eng. Info. Inc. All rts. reserv.

09088234 E.I. No: EIP02287011390

Title: An automatic tuning scheme for high frequency bandpass filters

Author: Liu, Hengsheng; Karsilayan, Aydin I.

Corporate Source: Department of Electrical Engineering Texas A and M University, College Station, TX 77843-3128, United States

Conference Title: 2002 IEEE International Symposium on Circuits and Systems

Conference Location: Phoenix, AZ, United States Conference Date: 20020526-20020529

E.I. Conference No.: 59249

Source: Proceedings - IEEE International Symposium on Circuits and Systems v 3 2002. p III/551-III/554 (IEEE cat n 02ch37353)

Publication Year: 2002

CODEN: PICSDI ISSN: 0271-4310

Language: English

Title: An automatic tuning scheme for high frequency bandpass filters

Abstract: An automatic tuning scheme for continuous-time bandpass filters based on a frequency synthesizer and a peak detector is proposed. A g/m-C second-order filter is designed to demonstrate the proposed tuning scheme. The circuit is designed in AMI 0...  
...error is 0.25%, and the Q tuning error is 3% for a 200 MHz filter with desired Q of 28.6. 9 Refs.

Descriptors: \*Electric network synthesis; Bandpass filters ; Tuning; Frequency synthesizers; Transfer functions ; Phase locked loops; Frequency dividing circuits; Variable frequency oscillators; Operational amplifiers; Transconductance

Identifiers: High frequency bandpass filter ; Continuous-time bandpass filter ; Second-order bandpass filter

37/3,K/5 (Item 2 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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07477746 E.I. No: EIP96083291298

Title: Efficient and reliable detection of QRS-segment in ECG signals

Author: Anand, R.S.; Kumar, V.

Corporate Source: Indian Inst of Technology, Kharagpur, India

Conference Title: Proceedings of the 1st 1995 Regional Conference IEEE Engineering in Medicine & Biology Society and 14th Conference of the Biomedical Engineering Society of India

Conference Location: New Delhi, India Conference Date: 19950215-19950218

E.I. Conference No.: 45145

Source: Proc 1 1995 Reg Conf IEEE Eng Med Biol Soc 14 Conf Biomed Eng Soc India 1995. IEEE, 95TH8089. p 2.56-2.57

Publication Year: 1995

Language: English

...Abstract: method suggested by the authors is implemented in two steps. The Step I forms the detection of R-peaks which is accomplished after three main operations: band pass filtering, 3-sample area estimation and...

...window averaging smoothens the R-peak envelopes. The thresholding pinpoints the R-peaks. After R-peaks are detected their location is confirmed in Step II which also marks the location of Q and...

Descriptors: \*Electrocardiography; Signal detection; Signal filtering and prediction; Bandpass filters ; Spurious signal noise; Interference suppression; Signal to noise ratio; Transfer functions ; Mathematical models; Z transforms

37/3,K/6 (Item 1 from file: 57)

DIALOG(R)File 57: Electronics & Communications Abstracts

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0000162827 IP ACCESSION NO: 0247246

Comparison of noise-shaping clock generators for switched-capacitor filters

Zeng, Raymond W; Hurst, Paul J  
Intel Corp, Folsom, CA, USA

PROC IEEE INT SYMP CIRCUITS SYST, v 1, p 77-80, 1996  
PUBLICATION DATE: 1996

PUBLISHER: IEEE, PISCATAWAY, NJ, (USA)

CONFERENCE:

The 1996 IEEE International Symposium on Circuits and Systems, ISCAS. Part 1 (of 4), Atlanta, GA, USA, 12-15 May 1996

DOCUMENT TYPE: Conference Paper; Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

ISSN: 0271-4310

FILE SEGMENT: Electronics & Communications Abstracts

Comparison of noise-shaping clock generators for switched-capacitor filters

ABSTRACT:

A programmable clock generator for switched-capacitor filters (SCFs) that uses noise shaping to generate a wide range of sampling frequencies with fine resolution was described in [1]. In this paper, alternative noise-shaping transfer functions are evaluated for the clock generator. Simulated and measured results are presented. Finally, a tone...

DESCRIPTORS: Switched filters ; Transfer functions ; Frequencies ; Spurious signal noise; Computer simulation; Bandpass filters ; Signal to noise ratio; Performance; Frequency response; Detectors ; Pulse shaping circuits

IDENTIFIERS: Programmable clock generators; Signal to sampling noise ratio ; Switched capacitor filters ; Sampling frequency; Noise shaping; Tone detectors; First order noise shaping  
...SUBJ CATG: Electric Filters ; E 921.6...

37/3,K/7 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal  
(c) 2007 INIST/CNRS. All rts. reserv.

11919749 PASCAL No.: 95-0091945  
Peak curvature measurement of frequency-guiding filter in optical soliton transmission  
KAWAI S; IWATSUKI K; NISHI S; SARUWATARI M  
NTT Optical Network Systems Laboratories, Yokosuka, Kanagawa 238-03, Japan  
Journal: Electronics letters, 1994, 30 (24) 2057-2058  
Language: English

Peak curvature measurement of frequency-guiding filter in optical soliton transmission

A novel technique is proposed to precisely measure the peak curvatures of the frequency-guiding filters used to reduce the timing jitter in optical soliton transmission. The peak curvatures are directly obtained by the synchronous detection method. The measured peak curvatures are in good agreement with those evaluated by their transfer functions

English Descriptors: Soliton; Optical telecommunication; Measurement method ; Jitter; Optical filter ; Synchronous detection; Theoretical study; Experimental result; Passband; Transfer function ; Band pass filter ; Function block diagram

?

41/3,K/1 (Item 1 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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10400711 E.I. No: EIP05209102155

Title: Characterization of lateral tape motion and disturbances in the servo position error signal of a linear tape drive

Author: Jose, Jan; Taylor, Ryan J.; De Callafon, Raymond A.; Talke, Frank E.

Corporate Source: Ctr. for Magnetic Recording Research Univ. of California at San Diego, San Diego, CA 92093-0401, United States

Source: Tribology International v 38 n 6-7 June/July 2005. p 625-632

Publication Year: 2005

CODEN: TRBIBK ISSN: 0301-679X

Language: English

...Abstract: signal is simulated and predicted and the effects of additional disturbances such as the servo track variability can be separated from the effects of the lateral tape motion. It is shown...  
?

44/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

0000733491 INSPEC Abstract Number: 1965B00698  
Title: A design of the "pulser" employed to over-come dead-time in automatic regulating systems  
Author(s): Date, H.  
Journal: Technical Journal of Japan Broadcasting Corporation 15 11  
p.23-35  
Publication Date: Nov. 1963 Country of Publication: Japan  
Language: English  
Subfile: B C  
Copyright 2004, IEE

...Abstract: A description is given of its application to the automatic recording machine for standard alignment magnetic tapes. In the machine, a dead-time of 1/3 or 2/3 second for a...

... the time domain). The method developed by E.S. Kuh for the precise design of transfer functions of delay lines is used in deriving the pulser function that satisfied the specifications. The low-pass filter used in Kuh's method has a transfer function of the Tchebycheff LC type, but a function of the RC type is used to eliminate inductances in the circuit, the error caused by the use of the RC transfer function being estimated by a simple method. Properties of the pulser function are described, and a...

44/3,K/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

0000671497 INSPEC Abstract Number: 1964A19881  
Title: Preliminary results of vbwr noise analysis  
Author(s): Pluta, P.R.  
Journal: Journal of Nuclear Energy 18 1 p.42  
Publication Date: Jan. 1964 Country of Publication: UK  
Conference Title: Symposium on Noise Analysis in Nuclear Systems  
Conference Date: Nov. 1963 Conference Location: Gainesville, FL USA  
Language: English  
Subfile: A  
Copyright 2004, IEE

...Abstract: obtain the power spectral density function; 4. calculation of the power spectral density function from magnetic tape using a constant Q bandpass filter circuit; 5. calculation of the power spectral density function from magnetic tape using a precision variable Q filter circuit (Booneshaft-Fuchs). The data were taken for natural and forced circulation at powers less...

... of the VBWR system parameters. Using a flux power spectral density function and rod oscillator transfer function measurements at the same reactor conditions, the reactivity-flux driving-power spectral density function is...

44/3,K/3 (Item 1 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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07454825 E.I. No: EIP96073248073

Title: Seventh-order  $g//m$ -C filter with bicubic section for pulse slimming

Author: Adams, William J.

Corporate Source: Soft Mixed Signal Corp, Santa Clara, CA, USA

Conference Title: Proceedings of the 1995 IEEE 38th Midwest Symposium on Circuits and Systems. Part 1 (of 2)

Conference Location: Rio de Janeiro, Braz Conference Date: 19950813-19950816

E.I. Conference No.: 44989

Source: Midwest Symposium on Circuits and Systems v 1 1995. IEEE, Piscataway, NJ, USA, 95CB35853. p 162-165

Publication Year: 1995

CODEN: MSCSDL

Language: English

Title: Seventh-order  $g//m$ -C filter with bicubic section for pulse slimming

Abstract: A 7th-order 0.05 degree equiripple linear phase filter is presented which includes a bicubic section to perform the pulse slimming function required in a magnetic tape drive read channel. The  $g//m$ -C filter relies on a programmable BiCMOS transconductance amplifier to achieve a 10X programming range of the...

Descriptors: \*Electric filters ; Magnetic tape ; Tape drives; CMOS integrated circuits; Bipolar integrated circuits; Amplifiers (electronic); Transfer functions ; Electric network synthesis; Differentiating circuits

Identifiers: Equiripple linear phase filter ; Bicubic section; Pulse slimming; Transconductance amplifier; Voltage amplifier

44/3,K/4 (Item 2 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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0001240185 E.I. No: 19580028984

Title: National Electronics Conference Proceedings

Author: Anon(Ed.)

Conference Title: Proceedings of the National Electronics Conference

Conference Date: 19580328

Source: National Electronics Conference v 13 ( Nat Electronics Conference, Inc Chicago, IL United States), 1066p

Publication Year: 1957

Language: English

...Abstract: J.HEIM, 287-95; Differentiated Bridge Networks, J.A.CONNOR, 296-308; Piezoelectric Ceramic Reed Filters , J. H.DENNY, C.A.ROSEN, 309-25; Circuit Standardization and Packaging Considerations of Crystal...

...W.H.HEWITT, Jr, W.H.von AULOCK, 459-69; Analysis of Lossy Transmission Line Filter , R.E.SAXE, 470-81; Prediction of Temperatures in Forced Convection Cooled Electronic Equipment, L...

...M.KAUFMAN, 641-52; Magnetic Cores for Airborne Digital Computers, J.REINER, 653-65; Transistorized Magnetic Tape to Paper Tape Buffer, C.W.McMULLEN, R.ASCHENBRENNER, M.SLANA, 666-72; Investigation of...

...and Stability, M.B. REED, G.B.REED, 867-74; Error Determination for Optimum Predicting Filters , T.R.BENEDICT, V.C.RIDEOUT, 875-87; Compensation of Sampled-Data Systems, L.M...

...SESHU, 1013-25; Feedback Amplifier Design by Forward Equivalent  
Circuits, L.M.VALLESE, 1026-48; Transfer Function Synthesis with Active  
Elements, F.F.KUO, 1049-56; A, B, C, D -- Network Design...

44/3,K/5 (Item 3 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
(c) 2007 Elsevier Eng. Info. Inc. All rts. reserv.

0000990412 E.I. No: 19590027779

Title: National telemetering conference -- Papers Presented at  
AIEE-ISA-ARS-IAS National Telemetering Conference, Denver, Colo, May 24-27,  
1959

Author: Anon

Source: American Institute of Electrical Engineers -- Publications Publ n  
T-115 May 1959 ( American Institute of Electrical Engineers (AIEE) New  
York, NY United States), 411p

Publication Year: 1959

Language: English

...Abstract: P.BOTHWELL, R.C.BARON, R.J.SUTHE RBY, 103-12; Transistorized  
Active Low Pass Filter with One CPS Corner Frequency, R.C. ONSTAD,  
113-23; Semiconductor Device Operation in Pulsed...

...60; Voltage-Transfer Low-Level Commutation System, M.E.MARTIN,  
W.M.PHILLIPS, 161-7; Transfer Function Computer, J. BROWN, 168-75;  
Low-Level, High-Speed Sampling Switch, E.J.YOUNG, 176-80;  
Variable-Reluctance DC Transducer, O.K. KOWALLIS, 181-7; High Density  
Magnetic Tape Recording of Digital Data, M.A.WELLS, 188-205; Tra-Decom  
-- Transistorized PAM Decommutator, P...

44/3,K/6 (Item 1 from file: 94)  
DIALOG(R)File 94: JICST-EPlus  
(c)2007 Japan Science and Tech Corp(JST). All rts. reserv.

01987848 JICST ACCESSION NUMBER: 94A0249533 FILE SEGMENT: JICST-E

Dynamic Tracking System for a Consumer VCR.

HATANAKA KEIJI (1); FUJIWARA NAOHISA (1); WATANABE MIYOICHI (1); TAKANO  
HIROO (1)

(1) Mitsubishidenki Eizoshisutemukaiken

Denshi Joho Tsushin Gakkai Ronbunshi. C,2(Transactions of the Institute of  
Electronics, Information and Communication Engineers. C-2), 1994,

VOL.77,NO.2, PAGE.120-129, FIG.15, TBL.3, REF.13

JOURNAL NUMBER: L0196AAD ISSN NO: 0915-1907

UNIVERSAL DECIMAL CLASSIFICATION: 621.3:681.327.1 621.397.61

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...DESCRIPTORS: low pass filter ; ...

... transfer function ;

BROADER DESCRIPTORS: magnetic tape recorder...

... filter (signal...

... filter ;

44/3,K/7 (Item 2 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2007 Japan Science and Tech Corp(JST). All rts. reserv.

01778480 JICST ACCESSION NUMBER: 93A0164694 FILE SEGMENT: JICST-E  
Verifying the realization of innerted phase noise suppression in PASC by  
simulation.

KURODA TOORU (1)  
Rajio Gijutsu, 1993, VOL.47,NO.2, PAGE.54-60, FIG.18, TBL.1  
JOURNAL NUMBER: F0256AAA  
UNIVERSAL DECIMAL CLASSIFICATION: 621.37:534.85  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Journal  
ARTICLE TYPE: Commentary  
MEDIA TYPE: Printed Publication

...DESCRIPTORS: band pass filter ; ...  
  
... transfer function ; ...  
  
... magnetic tape cassette  
...BROADER DESCRIPTORS: filter (signal...  
  
... filter ; ...  
... magnetic tape recorder...  
  
... magnetic tape ;

44/3,K/8 (Item 3 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2007 Japan Science and Tech Corp(JST). All rts. reserv.

00632943 JICST ACCESSION NUMBER: 88A0361273 FILE SEGMENT: JICST-E  
Effects of cross talk on monolithic filters .  
TANAKA SATOSHI (1); WATANABE TOMOYUKI (1); NORISUE KATUHIRO (2)  
(1) Hitachi, Ltd., Central Res. Lab.; (2) Hitachi VLSI Engineering Ltd.  
Denshi Joho Tsushin Gakkai Zenkoku Taikai Koen Ronbunshu(Spring National  
Convention Record, the Institute of Electronics, Information and  
Communication Engineers), 1988, VOL.1988,NO.Pt. C-2, PAGE.2.240, FIG.3,  
REF.2

JOURNAL NUMBER: G0508ADY  
UNIVERSAL DECIMAL CLASSIFICATION: 621.372.54  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Conference Proceeding  
ARTICLE TYPE: Short Communication  
MEDIA TYPE: Printed Publication

Effects of cross talk on monolithic filters .  
...DESCRIPTORS: filter design...  
  
... transfer function  
...BROADER DESCRIPTORS: magnetic tape recorder

44/3,K/9 (Item 4 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2007 Japan Science and Tech Corp(JST). All rts. reserv.

00269038 JICST ACCESSION NUMBER: 86A0347883 FILE SEGMENT: JICST-E

Improvement of low frequency characteristics in digital magnetic recording  
using regenerated signals.

MITA SEIICHI (1); IZUMITA MORISHI (1)

(1) Hitachi Ltd., Central Res. Lab.

Denshi Tsushin Gakkai Ronbunshi. C(Transactions of the Institute of

Electronics and Communication Engineers of Japan. C), 1986, VOL.69,NO.5  
, PAGE.644-652, FIG.12, REF.14

JOURNAL NUMBER: S0623AAL ISSN NO: 0373-6113

UNIVERSAL DECIMAL CLASSIFICATION: 621.3:681.327.1

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...DESCRIPTORS: highpass filter ; ...

... transfer function

...BROADER DESCRIPTORS: magnetic tape recorder...

... filter (signal...

... filter ;

?

48/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

08195698 INSPEC Abstract Number: A2002-07-6180B-006

Title: Laser ablation of solid ozone  
Author(s): Nonaka, H.; Nishiguchi, T.; Morikawa, Y.; Miyamoto, M.; Ichimura, S.  
Author Affiliation: Mater. Sci. Div., Electrotech. Lab., Tsukuba, Japan  
Conference Title: Laser-Solid Interactions for Materials Processing, Symposium (Materials Research Society Symposium Proceedings Vol.617) p. J1.3.1-6  
Editor(s): Kumar, D.; Norton, D.P.; Lee, C.B.; Ebihara, K.; Xi, X.X.  
Publisher: Mater. Res. Soc, Warrendale, PA, USA  
Publication Date: 2000 Country of Publication: USA xi+256 pp.  
ISBN: 1 55899 525 0 Material Identity Number: XX-2001-01014  
Conference Title: Laser-Solid Interactions for Materials Processing. Symposium  
Conference Date: 25-27 April 2000 Conference Location: San Francisco, CA, USA  
Language: English  
Subfile: A  
Copyright 2002, IEE

...Abstract: a UV laser were investigated using a time-of-flight method through a quadrupole mass filter . The results show that UV laser ablation of solid ozone can produce a pulsed ozone...

...Identifiers: quadrupole mass filter ;  
Kumar, D. (editor); Norton, D.P. (editor) ; Lee, C.B. (editor);  
Ebihara, K. (editor); Xi, X.X. (editor)

48/3,K/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

06473059 INSPEC Abstract Number: A9704-8115H-030

Title: Three-dimensional laser chemical vapor deposition of nickel-iron alloys  
Author(s): Maxwell, J.L.; Pegna, J.; Deangelis, D.A.; Messia, D.V.  
Author Affiliation: Center for Integrated Electron. & Electron. Manuf., Rensselaer Polytech. Inst., Troy, NY, USA  
Conference Title: Advanced Laser Processing of Materials - Fundamentals and Applications. Symposium p.601-6  
Editor(s): Singh, R.; Norton, D.; Laude, L.; Narayan, J.; Cheung, J.  
Publisher: Mater. Res. Soc, Pittsburgh, PA, USA  
Publication Date: 1996 Country of Publication: USA xvi+674 pp.  
Material Identity Number: XX96-03315  
Conference Title: Advanced Laser Processing of Materials - Fundamentals and Applications  
Conference Date: 27-30 Nov. 1995 Conference Location: Boston, MA, USA  
Language: English  
Subfile: A  
Copyright 1997, IEE

...Abstract: for the iron-nickel carbonyl mixture, and was largely eliminated with a high-pass UV filter at 420 nm. Additional disassociation of the carbonyl groups produced carbon soot near the reaction...

...Identifiers: high-pass UV filter ;

Singh, R. (editor); Norton, D. (editor) ; Laude, L. (editor);  
Narayan, J. (editor); Cheung, J. (editor)

48/3,K/3 (Item 3 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

05769045 INSPEC Abstract Number: B9411-6260-012  
Title: Tunable microwave filtering using high dispersion fiber time delays  
Author(s): Norton, D. ; Johns, S.; Keefer, C.; Soref, R.  
Author Affiliation: Photonics Center, USAF Rome Lab., Griffiss AFB, NY,  
USA  
Journal: IEEE Photonics Technology Letters vol.6, no.7 p.831-2  
Publication Date: July 1994 Country of Publication: USA  
CODEN: IPTLEL ISSN: 1041-1135  
U.S. Copyright Clearance Center Code: 1041-1135/94/\$04.00  
Language: English  
Subfile: B

Author(s): Norton, D. ; Johns, S.; Keefer, C.; Soref, R.  
Abstract: We have demonstrated a tapped delay line microwave filter  
based on the use of high dispersion fiber as the tunable time delay. This  
system...  
...Descriptors: microwave filters ; ...  
...optical filters ;  
...Identifiers: tapped delay line microwave filter ;

48/3,K/4 (Item 4 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

01020994 INSPEC Abstract Number: A69014449  
Title: The testing and adjustment of Lyot-Ohman filters  
Author(s): Ramsay, J.V.; Norton, D.G. ; Mugridge, E.G.V.  
Author Affiliation: C.S.I.R.O. Div. Physics, Nat. Standards Lab., Sydney,  
NSW, Australia  
Journal: Solar Physics vol.4, no.4 p.476-8  
Publication Date: Aug. 1968 Country of Publication: Netherlands  
CODEN: SLPHAX ISSN: 0038-0938  
Language: English  
Subfile: A

Title: The testing and adjustment of Lyot-Ohman filters  
Author(s): Ramsay, J.V.; Norton, D.G. ; Mugridge, E.G.V.  
...Abstract: scanning Fabry-Perot interferometer is used to determine the  
line profile of a Lyot-Ohman filter . Test results on some filters are  
given.  
Descriptors: optical filters

48/3,K/5 (Item 1 from file: 6)  
DIALOG(R)File 6:NTIS  
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1954541 NTIS Accession Number: AD-A305 204/0  
Demonstration of High Dispersive Fiber Based Optical Processor  
(Rept. for Oct 93-Sep 95)

Johns, S. T. ; Norton, D. A.  
Rome Lab., Griffiss AFB, NY.  
Corp. Source Codes: 101273000; 422828  
Report No.: RL-TR-95-280  
Jan 96 46p

Languages: English

Journal Announcement: GRAI9617

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fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is  
located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A04/MF A01

Johns, S. T. ; Norton, D. A.

We have demonstrated a tapped delay line microwave filter based on the  
use of high dispersion fiber as the tunable time delay. This system...

Descriptors: \*Optical processing; \*Microwave filters ; Signal processing  
; Fiber optics; Time intervals; Fibers; Dispersing; Demonstrations;  
Variables; Length; Tuning; Bandwidth; Microwave optics...

48/3,K/6 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2007 The Thomson Corp. All rts. reserv.

05873555 Genuine Article#: XD394 No. References: 89

Title: Lessons in ecosystem management from management of threatened and  
pest loranthaceous mistletoes in New Zealand and Australia.

Author(s): Norton DA (REPRINT) ; Reid N

Corporate Source: UNIV CANTERBURY, SCH FORESTRY, CONSERVAT RES GRP, PRIVATE  
BAG 4800/CHRISTCHURCH 1/NEW ZEALAND/ (REPRINT); UNIV NEW ENGLAND, DEPT  
ECOSYST MANAGEMENT/ARMIDALE/NSW 2351/AUSTRALIA/

Journal: CONSERVATION BIOLOGY, 1997, V11, N3 (JUN), P759-769

ISSN: 0888-8892 Publication date: 19970600

Publisher: BLACKWELL SCIENCE INC, 350 MAIN ST, MALDEN, MA 02148

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Author(s): Norton DA (REPRINT) ; Reid N

...Abstract: mistletoe abundance in pre-European landscapes was dependent  
on a series of evolutionary and environmental filters relating to  
host specificity, pollination, dispersal, infection, environmental  
habitat quality, predation, and disturbance. European settlement  
modified there filters in a number of ways, resulting in either  
increases or decreases in mistletoe abundance. The...

?

File 9:Business & Industry(R) Jul/1994-2007/Jan 30  
     (c) 2007 The Gale Group  
 File 15:ABI/Inform(R) 1971-2007/Jan 31  
     (c) 2007 ProQuest Info&Learning  
 File 16:Gale Group PROMT(R) 1990-2007/Jan 30  
     (c) 2007 The Gale Group  
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     (c) 2007 Dialog  
 File 47:Gale Group Magazine DB(TM) 1959-2007/Jan 24  
     (c) 2007 The Gale group  
 File 75:TGG Management Contents(R) 86-2007/Jan W3  
     (c) 2007 The Gale Group  
 File 80:TGG Aerospace/Def.Mkts(R) 1982-2007/Jan 30  
     (c) 2007 The Gale Group  
 File 88:Gale Group Business A.R.T.S. 1976-2007/Jan 30  
     (c) 2007 The Gale Group  
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     (c) 2007 The HW Wilson Co.  
 File 112:UBM Industry News 1998-2004/Jan 27  
     (c) 2004 United Business Media  
 File 141:Readers Guide 1983-2007/Nov  
     (c) 2007 The HW Wilson Co  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2007/Jan 30  
     (c) 2007 The Gale Group  
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     (c) 2007 Dialog  
 File 484:Periodical Abs Plustext 1986-2007/Jan W4  
     (c) 2007 ProQuest  
 File 553:Wilson Bus. Abs. 1982-2007/Jan  
     (c) 2007 The HW Wilson Co  
 File 570:Gale Group MARS(R) 1984-2007/Jan 30  
     (c) 2007 The Gale Group  
 File 608:KR/T Bus.News. 1992-2007/Jan 31  
     (c)2007 Knight Ridder/Tribune Bus News  
 File 620:EIU:Viewswire 2007/Jan 30  
     (c) 2007 Economist Intelligence Unit  
 File 613:PR Newswire 1999-2007/Jan 31  
     (c) 2007 PR Newswire Association Inc  
 File 621:Gale Group New Prod.Annou.(R) 1985-2007/Jan 24  
     (c) 2007 The Gale Group  
 File 623:Business Week 1985-2007/Jan 30  
     (c) 2007 The McGraw-Hill Companies Inc  
 File 624:McGraw-Hill Publications 1985-2007/Jan 31  
     (c) 2007 McGraw-Hill Co. Inc  
 File 635:Business Dateline(R) 1985-2007/Jan 31  
     (c) 2007 ProQuest Info&Learning  
 File 636:Gale Group Newsletter DB(TM) 1987-2007/Jan 30  
     (c) 2007 The Gale Group  
 File 647:CMP Computer Fulltext 1988-2007/Apr W1  
     (c) 2007 CMP Media, LLC  
 File 696:DIALOG Telecom. Newsletters 1995-2007/Jan 30  
     (c) 2007 Dialog  
 File 674:Computer News Fulltext 1989-2006/Sep W1  
     (c) 2006 IDG Communications  
 File 810:Business Wire 1986-1999/Feb 28  
     (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
     (c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	37	CORRELATION()RECEIVER??
S2	6940	DETECT???(3N) (PULSE?? OR PEAK??)
S3	72	CORRELATION() SIGNAL??
S4	5372	(BANDPASS?? OR BAND() PASS) (3N) FILTER??
S5	2490	BPF
S6	25	S2(3N) DEMODULAT?
S7	0	S2(3N) (SERVO() (TRACK?? OR MARK??))
S8	623580	FILTER?? OR (CORRELAT? OR ANTI() ALIAS) () (FILTER?? OR RECEI- VER?? OR SIGNAL??) OR CORRELATOR??
S9	8286	TRANSFER() FUNCTION??
S10	23287	MAGNETIC() TAPE??
S11	4031	AU=(NORTON, D? OR NORTON D?) OR DAVID(2N) NORTON
S12	6995	QUANTUM() CORPORATION?
S13	2	S1(5N) S2
S14	1	RD (unique items)
S15	0	S1(5N) S9
S16	0	S1(5N) (S4 OR S5)
S17	0	S1(5N) S10
S18	0	S3(5N) S2
S19	0	S3(5N) S9
S20	0	S6(5N) S9
S21	0	S6(5N) S10
S22	0	SERVO() (TRACK?? OR MARK??) (5N) S9
S23	326	S8(5N) S9
S24	0	S23(5N) S10
S25	0	S23(5N) S1
S26	1	S23(5N) S2
S27	0	S23(5N) DEMODULAT?
S28	0	SERVO() (TRACK?? OR MARK??) (5N) S23
S29	0	S11(5N) S1
S30	0	S12(5N) S1
S31	0	S12(5N) S9
?		

14/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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08273363 Supplier Number: 69805904 (USE FORMAT 7 FOR FULLTEXT)  
HISTORY OF ULTRA WIDEBAND COMMUNICATIONS AND RADAR: PART I, UWB  
COMMUNICATIONS. (Brief Article)  
BARRETT, TERENCE W.  
Microwave Journal, v44, n1, p22  
Jan, 2001  
Language: English Record Type: Fulltext  
Article Type: Brief Article  
Document Type: Magazine/Journal; Refereed; Trade  
Word Count: 10224

... or integration over time.

In the case of the correlation receiver detector, UWB and gate  
pulses are multiplied to produce a short output unamplified pulse whenever  
there is a coincidence. Next...

26/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2007 The Gale Group. All rts. reserv.

01204804 SUPPLIER NUMBER: 05132182 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Chip set simplifies linking T1 or ISDN lines to PBXs.  
Wray, Charles L.; Brightment, Steve C.  
Electronic Design, v35, p111(5)  
Aug 20, 1987  
ISSN: 0013-4872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 2493 LINE COUNT: 00193

... amplifier to two ALBO diodes. The diodes behave like variable  
dynamic resistances to control the transfer functions of the ALBO  
filters .

The peak - detector outputs also give references for a pair of  
comparators for data detection. Half the stored...

File 348:EUROPEAN PATENTS 1978-2006/ 200704

(c) 2007 European Patent Office

File 349:PCT FULLTEXT 1979-2007/UB=20070125UT=20070118

(c) 2007 WIPO/Thomson

Set	Items	Description
S1	230	CORRELATION()RECEIVER??
S2	32201	DETECT???(3N)(PULSE?? OR PEAK??)
S3	1077	CORRELATION()SIGNAL??
S4	26992	(BANDPASS?? OR BAND()PASS)(3N)FILTER??
S5	2842	BPF
S6	213	S2(3N)DEMODULAT?
S7	3	S2(3N)(SERVO() (TRACK?? OR MARK??))
S8	503816	FILTER?? OR (CORRELAT? OR ANTI()ALIAS)() (FILTER?? OR RECEI- VER?? OR SIGNAL??) OR CORRELATOR??
S9	17368	TRANSFER()FUNCTION??
S10	25556	MAGNETIC()TAPE??
S11	78	AU=(NORTON, D? OR NORTON D?) OR DAVID(2N)NORTON
S12	491	QUANTUM()CORPORATION?
S13	1	S1(5N)S2
S14	0	S1(5N)S9
S15	2	S1(5N)(S4 OR S5)
S16	1	S15 NOT S13
S17	41	S3(5N)S2
S18	0	S17(5N)S9
S19	0	S17(5N)S10
S20	0	S6(5N)S9
S21	0	S7(5N)S9
S22	3607	S8(5N)S9
S23	4	S22(5N)S2
S24	171	S22(5N)(S4 OR S5)
S25	0	S24(5N)DEMODULAT?
S26	1	S24(5N)DETECT?
S27	1	S24(5N)S10
S28	0	S11(5N)(S1 OR S2 OR S8)
S29	0	S12(5N)S9

13/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01872292

Correlation receiver for demodulating servo track information  
Korrelationsempfänger zur Demodulation von Servospur-Informationen  
Recepteur de correlation pour demoduler l'information servo-piste

PATENT ASSIGNEE:

QUANTUM CORPORATION, (567674), 1650 Technology Drive, Suite 800, San Jose, California 95110, (US), (Applicant designated States: all)

INVENTOR:

Norton, David Elliott Jr., 795 Utica Avenue, Boulder Colorado 80304, (US)

LEGAL REPRESENTATIVE:

Charig, Raymond Julian (79692), Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD, (GB)

PATENT (CC, No, Kind, Date): EP 1517305 A1 050323 (Basic)

APPLICATION (CC, No, Date): EP 2004254871 040813;

PRIORITY (CC, No, Date): US 652750 030828

DESIGNATED STATES: DE; GB

EXTENDED DESIGNATED STATES: AL; HR; LT; LV; MK

INTERNATIONAL PATENT CLASS (V7): G11B-005/584

ABSTRACT WORD COUNT: 119

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200512	1357
SPEC A	(English)	200512	3078
Total word count - document A			4435
Total word count - document B			0
Total word count - documents A + B			4435

...ABSTRACT A1

A correction receiver, among other functions, detects peaks of a correlation signal. The correlation receiver includes a master peak detector for determining whether an amplitude of a pulse of the correlation signal exceeds by at...

...SPECIFICATION data track widths and greater storage density on the tape.

SUMMARY OF THE INVENTION

A correlation receiver, among other functions, detects peaks of a correlation signal. The correlation receiver includes a master peak detector for determining whether an amplitude of a pulse of the correlation signal exceeds by at...

...CLAIMS on a surface of the tape opposite a magnetic surface of the tape.

18. A correlation receiver for detecting peaks of a correlation signal, the correlation receiver comprising:  
a master peak detector for determining whether an amplitude of a pulse of the correlation signal exceeds by at...

...on a surface of the tape opposite a magnetic surface of the tape.

41. A correlation receiver for detecting a pulse input signal comprising:

16/3,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01439143 \*\*Image available\*\*

DEVICE AND METHOD FOR RECEIVING BINARY DATA RADIO FREQUENCY  
DISPOSITIF ET PROCEDE DE RECEPTION RADIOFREQUENCE DE DONNEES BINAIRES

Patent Applicant/Assignee:

UNIVERSITE JOSEPH FOURIER, 621 Avenue Centrale, Domaine Universitaire,  
F-38400 Saint-Martin d'Heres, FR, FR (Residence), .FR (Nationality),  
(For all designated states except: US)  
INSTITUT NATIONAL POLYTECHNIQUE DE GRENOBLE, 46, avenue Felix Viallet,  
F-38031 Grenoble Cedex, FR, FR (Residence), FR (Nationality), (For all  
designated states except: US)

Patent Applicant/Inventor:

NOVAKOV Emil, 3, allée des Etangs, F-38240 Meylan, FR, FR (Residence), FR  
(Nationality),  
VOINOT Stanislas, 32, rue Ampere, F-38100 GRENOBLE, FR, FR (Residence),  
FR (Nationality),  
FOURNIER Jean-Michel, 20, Allée du Mijou, F-38240 Meylan, FR, FR  
(Residence), FR (Nationality),

Legal Representative:

DOSSMANN Gerard (agent), Bureau D.A. Casalonga-Josse, 8 avenue Percier,  
F-75008 Paris, FR

Patent and Priority Information (Country, Number, Date):

Patent: WO 2006120319 A1 20061116 (WO 06120319)  
Application: WO 2006FR990 20060503 (PCT/WO FR2006000990)  
Priority Application: FR 20054680 20050510

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR  
KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG  
PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC  
VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: French

Filing Language: French

Fulltext Word Count: 2279

English Abstract

...envelop detection and matched filtering circuits and output is  
connected to the input of said correlation receiver (4). The band -  
pass of said secondary filters correspond to disjointed sub-bands  
included into said main band-pass. The matched envelop detection...

7/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01872292

Correlation receiver for demodulating servo track information  
Korrelationsempfänger zur Demodulation von Servospur-Informationen  
Recepteur de correlation pour demoduler l'information servo-piste  
PATENT ASSIGNEE:

QUANTUM CORPORATION, (567674), 1650 Technology Drive, Suite 800, San  
Jose, California 95110, (US), (Applicant designated States: all)

INVENTOR:

Norton, David Elliott Jr., 795 Utica Avenue, Boulder Colorado 80304, (US)  
LEGAL REPRESENTATIVE:

Charig, Raymond Julian (79692), Eric Potter Clarkson, Park View House, 58  
The Ropewalk, Nottingham NG1 5DD, (GB)

PATENT (CC, No, Kind, Date): EP 1517305 A1 050323 (Basic)

APPLICATION (CC, No, Date): EP 2004254871 040813;

PRIORITY (CC, No, Date): US 652750 030828

DESIGNATED STATES: DE; GB

EXTENDED DESIGNATED STATES: AL; HR; LT; LV; MK

INTERNATIONAL PATENT CLASS (V7): G11B-005/584

ABSTRACT WORD COUNT: 119

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200512	1357
SPEC A	(English)	200512	3078
Total word count - document A			4435
Total word count - document B			0
Total word count - documents A + B			4435

...SPECIFICATION with servo track detection is noise on the signal  
representing the light reflected from the servo marks . A peak  
detector is typically employed to detect the peak reflectivity from each  
mark, to thereby establish the...

...a negative correlation.

In general, an increase in peak amplitude is considered to indicate  
better detection of the actual peak reflected from a servo mark .  
However, empirical studies of an SDLT 600 tape drive modified to employ  
the peak detector...

7/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2007 European Patent Office. All rts. reserv.

00271127

Servo synchronization method and apparatus for a magnetic disk.  
Servosynchronisierungsverfahren und -anordnung für eine magnetische Platte.  
Methode et appareil de synchronisation asservie pour un disque magnetique.  
PATENT ASSIGNEE:

KONICA CORPORATION, (206970), 26-2, Nishi-shinjuku 1-chome Shinjuku-ku,  
Tokyo, (JP), (applicant designated states: BE;DE;FR;GB;IT;NL)

INVENTOR:

Song, Hubert, 775 Sweetbay Drive, Sunnyvale California 94086, (US)  
 LEGAL REPRESENTATIVE:  
 Wood, Anthony Charles et al (37871), Urquhart-Dykes & Lord 91 Wimpole  
 Street, London W1M 8AH, (GB)  
 PATENT (CC, No, Kind, Date): EP 265092 A2 880427 (Basic)  
 EP 265092 A3 881130  
 EP 265092 B1 910710  
 APPLICATION (CC, No, Date): EP 87308600 870929;  
 PRIORITY (CC, No, Date): US 918502 861014  
 DESIGNATED STATES: BE; DE; FR; GB; IT; NL  
 INTERNATIONAL PATENT CLASS (V7): G11B-005/596; G11B-021/10  
 ABSTRACT WORD COUNT: 123  
 LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:  

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	484
CLAIMS B	(German)	EPBBF1	412
CLAIMS B	(French)	EPBBF1	617
SPEC B	(English)	EPBBF1	6683
Total word count - document A			0
Total word count - document B			8196
Total word count - documents A + B			8196

...SPECIFICATION 58 and the timing windows can be generated using this point as a reference. If two pulses are detected, then the disk drive system knows that an alternate sync mark 72 has been detected...

...burst gap 102. Finally, a transition gap 106 follows the "B" servo burst section 104. The consecutive servo tracks alternate between having an "A" burst in section 100 and having a "B" burst in...track. The system thus keeps the head on the data track mid-way between the servo tracks. After the head reads the servo bursts, the head passes a transition gap 106. The head can be...

7/3,K/3 (Item 1 from file: 349)  
 DIALOG(R)File 349:PCT FULLTEXT  
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00524931 \*\*Image available\*\*  
 APPARATUS FOR REPRODUCING INFORMATION FROM A RECORD CARRIER  
 APPAREIL DE REPRODUCTION D'INFORMATIONS A PARTIR D'UN SUPPORT  
 D'ENREGISTREMENT

Patent Applicant/Assignee:  
 KONINKLIJKE PHILIPS ELECTRONICS N V,  
 PHILIPS AB,  
 Inventor(s):  
 VAN DEN ENDEN Gijsbert J,  
 Patent and Priority Information (Country, Number, Date):  
 Patent: WO 9956283 A2 19991104  
 Application: WO 99IB701 19990420 (PCT/WO IB9900701)  
 Priority Application: EP 98201370 19980428

Designated States:  
 (Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CN JP KR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
 Publication Language: English  
 Fulltext Word Count: 5806

Fulltext Availability:  
 Detailed Description

#### Detailed Description

... specific rotation rate and radial position, resulting in a linear speed  $v_1$ . As a result, servo mark pulses are detected and supplied to the converter 60, which generates a second control signal  $cs_2$  in response...

23/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01872292

Correlation receiver for demodulating servo track information  
Korrelationsempfänger zur Demodulation von Servospur-Informationen  
Recepteur de correlation pour demoduler l'information servo-piste  
PATENT ASSIGNEE:

QUANTUM CORPORATION, (567674), 1650 Technology Drive, Suite 800, San  
Jose, California 95110, (US), (Applicant designated States: all)

INVENTOR:

Norton, David Elliott Jr., 795 Utica Avenue, Boulder Colorado 80304, (US)

LEGAL REPRESENTATIVE:

Charig, Raymond Julian (79692), Eric Potter Clarkson, Park View House, 58  
The Ropewalk, Nottingham NG1 5DD, (GB)

PATENT (CC, No, Kind, Date): EP 1517305 A1 050323 (Basic)

APPLICATION (CC, No, Date): EP 2004254871 040813;

PRIORITY (CC, No, Date): US 652750 030828

DESIGNATED STATES: DE; GB

EXTENDED DESIGNATED STATES: AL; HR; LT; LV; MK

INTERNATIONAL PATENT CLASS (V7): G11B-005/584

ABSTRACT WORD COUNT: 119

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200512	1357
SPEC A	(English)	200512	3078
Total word count - document A			4435
Total word count - document B			0
Total word count - documents A + B			4435

...CLAIMS filtered signal with a correlation filter having a transfer  
function shape substantially similar to the transfer function  
shape of the bandpass filter ; and

detecting peaks of the correlation filtered signal.

36. The method of claim 35, the correlation signal peaks...

...of the tape opposite a magnetic surface of the tape.

41. A correlation receiver for detecting a pulse input signal  
comprising:

a bandpass filter , having a transfer function shape, for bandpass  
filtering the input signal;

a correlation filter for correlation filtering the bandpass filtered  
signal, the correlation filter having a transfer function shape  
substantially similar to the transfer function shape of the  
bandpass filter ; and

a detector for detecting peaks of the correlation filtered signal.

42. The correlation receiver of claim 41, the correlation signal...

23/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01544530

PEAK DETECTION WITH MATCHED FILTER  
SPITZENWERTERKENNUNG MIT ANGEPASSTEM FILTER  
PRECISION DE DETECTION DE CRETES

PATENT ASSIGNEE:

Koninklijke Philips Electronics N.V., (200769), Groenewoudseweg 1, 5621  
BA Eindhoven, (NL), (Proprietor designated states: all)

INVENTOR:

DU, Yonggang, Int. Octrooibureau B.V., Prof. Holstlaan 6, 5656 AA  
Eindhoven, (NL)  
SUN, Li, Int. Octrooibureau B.V., Prof. Holstlaan 6, 5656 AA Eindhoven,  
(NL)

LEGAL REPRESENTATIVE:

van der Veer, Johannes Leendert et al (78072), Philips Intellectual  
Property & Standards P.O. Box 220, 5600 AE Eindhoven, (NL)

PATENT (CC, No, Kind, Date): EP 1430626 A2 040623 (Basic)

EP 1430626 B1 060726

WO 2002103946 021227

APPLICATION (CC, No, Date): EP 2002735848 020613; WO 2002IB2255 020613

PRIORITY (CC, No, Date): WO 2001IB1533 010618

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;

LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04J-003/00

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

H04J-0003/00 A I F B 20060101 20030107 H EP

NOTE:

No A-document published by EPO

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200630	519
CLAIMS B	(German)	200630	474
CLAIMS B	(French)	200630	583
SPEC B	(English)	200630	2727
Total word count - document A			0
Total word count - document B			4303
Total word count - documents A + B			4303

...SPECIFICATION input signal. The peak of the correlation function  
appearing at the matched-filter output is detected in a peak  
detection section 19. The transfer function  $h(i)$  of the matched-  
filter is  $h(i)=s(N-1-i)$ ,  $i=0, \dots, N-1$ . In ideal situations a...

23/3,K/3 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00817203

Active adaptive selective control system  
Aktives adaptives selektives Steuerungssystem  
Systeme de commande actif, adaptatif et selectif  
PATENT ASSIGNEE:

DIGISONIX, Inc., (1744521), 8401 Murphy Drive, Middleton, Wisconsin  
53562-2543, (US), (Proprietor designated states: all)

INVENTOR:

Allie, Mark C., 1702 Bonner Trail, Oregon, Wisconsin 53575, (US)  
Eriksson, Larry J., 5301 Greenbriar Lane, Madison, Wisconsin 53714, (US)

LEGAL REPRESENTATIVE:

*Handwritten:* 5,715,320

Burke, Steven David et al (47741), R.G.C. Jenkins & Co. 26 Caxton Street,  
 London SW1H 0RJ, (GB)  
 PATENT (CC, No, Kind, Date): EP 759606 A2 970226 (Basic)  
 EP 759606 A3 981230  
 EP 759606 B1 030326  
 APPLICATION (CC, No, Date): EP 96306121 960821;  
 PRIORITY (CC, No, Date): US 517464 950821  
 DESIGNATED STATES: DE; FR; GB; IT; NL; SE  
 INTERNATIONAL PATENT CLASS (V7): G10K-011/178  
 ABSTRACT WORD COUNT: 138

NOTE:

Figure number on first page: 7

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	2331
CLAIMS B	(English)	200313	2151
CLAIMS B	(German)	200313	1891
CLAIMS B	(French)	200313	2561
SPEC A	(English)	EPAB97	10872
SPEC B	(English)	200313	10845
Total word count - document A			13205
Total word count - document B			17448
Total word count - documents A + B			30653

...SPECIFICATION of model 40, rather than from random noise signal source 208, Fig. 15. The spectral transfer function provided by filter 306 also includes a peak detector 312 similar to peak detector 97, Fig. 7. The output of inverse C model 306 is supplied to peak detector... 302 is supplied to filter input 304 of M copy 200, as above. The spectral transfer function provided by filter 306 includes a peak detector 312 similar to peak detector 97, Fig. 7. The output of inverse C model 306 is supplied to peak detector...

...SPECIFICATION of model 40, rather than from random noise signal source 208, Fig. 15. The spectral transfer function provided by filter 306 also includes a peak detector 312 similar to peak detector 97, Fig. 7. The output of inverse C model 306 is supplied to peak detector... 302 is supplied to filter input 304 of M copy 200, as above. The spectral transfer function provided by filter 306 includes a peak detector 312 similar to peak detector 97, Fig. 7. The output of inverse C model 306 is supplied to peak detector...

23/3,K/4 (Item 1 from file: 349)  
 DIALOG(R)File 349:PCT FULLTEXT  
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00970436 \*\*Image available\*\*

PEAK DETECTION WITH MATCHED FILTER

PRECISION DE DETECTION DE CRETES

Patent Applicant/Assignee:

KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA  
 Eindhoven, NL, NL (Residence), NL (Nationality), (For all designated  
 states except: US)

Patent Applicant/Inventor:

DU Yonggang, Internationaal Octrooibureau B.V., Prof . Holstlaan 6,  
 NL-5656 AA Eindhoven, NL, NL (Residence), DE (Nationality), (Designated  
 only for: US)

SUN Li, Internationaal Octrooibureau B.V., Prof . Holstlaan 6, NL-5656 AA  
Eindhoven, NL, NL (Residence), CN (Nationality), (Designated only for:  
US)

Legal Representative:

DUIJVESTIJN Adrianus J (agent), Internationaal Octrooibureau B.V., Prof.  
Holstlaan 6, NL-5656 AA Eindhoven, NL,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2002103946 A2-A3 20021227 (WO 02103946)

Application: WO 2002IB2255 20020613 (PCT/WO IB02002255)

Priority Application: WO 2001IB1533 20010618

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

CN JP KR US

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Publication Language: English

Filing Language: English

Fulltext Word Count: 3688

Fulltext Availability:

Detailed Description

Detailed Description

... input signal. The peak of the correlation function appearing at the  
matched-filter output is detected in a peak detection section 19.  
The transfer function  $h(i)$  of the matched- filter is  $h(i)=s(N-14)$ ,  
 $i=0, \dots, N$  In ideal situations a peak would...

26/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01872292

Correlation receiver for demodulating servo track information  
Korrelationsempfänger zur Demodulation von Servospur-Informationen  
Recepteur de correlation pour demoduler l'information servo-piste  
PATENT ASSIGNEE:

QUANTUM CORPORATION, (567674), 1650 Technology Drive, Suite 800, San  
Jose, California 95110, (US), (Applicant designated States: all)

INVENTOR:

Norton, David Elliott Jr., 795 Utica Avenue, Boulder Colorado 80304, (US)

LEGAL REPRESENTATIVE:

Charig, Raymond Julian (79692), Eric Potter Clarkson, Park View House, 58,  
The Ropewalk, Nottingham NG1 5DD, (GB)

PATENT (CC, No, Kind, Date): EP 1517305 A1 050323 (Basic)

APPLICATION (CC, No, Date): EP 2004254871 040813;

PRIORITY (CC, No, Date): US 652750 030828

DESIGNATED STATES: DE; GB

EXTENDED DESIGNATED STATES: AL; HR; LT; LV; MK

INTERNATIONAL PATENT CLASS (V7): G11B-005/584

ABSTRACT WORD COUNT: 119

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200512	1357
SPEC A	(English)	200512	3078
Total word count - document A			4435
Total word count - document B			0
Total word count - documents A + B			4435

...CLAIMS filtered signal with a correlation filter having a transfer  
function shape substantially similar to the transfer function  
shape of the bandpass filter .

13. The method of claim 12, the correlation signal peaks corresponding to  
positions of marks...

...are optically detectable.

17. The method of claim 16, wherein the servo marks are optically  
detectable on a surface of the tape opposite a magnetic surface of  
the tape.

18. A correlation receiver for detecting peaks of a correlation signal,  
the correlation receiver comprising:  
a master peak detector for determining whether an amplitude of a pulse  
of the correlation signal exceeds by at...

...peak and the pulse.

24. The correlation receiver of claim 18, wherein the master peak  
detector determines whether the amplitude of the correlation signal  
pulse falls below an amplitude of the prior peak less a droop value,  
and, if so, the master peak detector does not designate the pulse  
as a peak.

25. The correlation receiver of claim 24, wherein the master peak  
detector determines whether the amplitude of the correlation signal  
pulse falls between the prior peak amplitude...

27/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01872292

Correlation receiver for demodulating servo track information  
Korrelationsempfänger zur Demodulation von Servospur-Informationen  
Recepteur de correlation pour demoduler l'information servo-piste  
PATENT ASSIGNEE:

QUANTUM CORPORATION, (567674), 1650 Technology Drive, Suite 800, San  
Jose, California 95110, (US), (Applicant designated States: all)

INVENTOR:

Norton, David Elliott Jr., 795 Utica Avenue, Boulder Colorado 80304, (US)

LEGAL REPRESENTATIVE:

Charig, Raymond Julian (79692), Eric Potter Clarkson, Park View House, 58  
The Ropewalk, Nottingham NG1 5DD, (GB)

PATENT (CC, No, Kind, Date): EP 1517305 A1 050323 (Basic)

APPLICATION (CC, No, Date): EP 2004254871 040813;

PRIORITY (CC, No, Date): US 652750 030828

DESIGNATED STATES: DE; GB

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INTERNATIONAL PATENT CLASS (V7): G11B-005/584

ABSTRACT WORD COUNT: 119

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LANGUAGE (Publication,Procedural,Application): English; English; English

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SPEC A	(English)	200512	3078
Total word count - document A			4435
Total word count - document B			0
Total word count - documents A + B			4435

...CLAIMS filtered signal with a correlation filter having a transfer  
function shape substantially similar to the transfer function  
shape of the bandpass filter .

13. The method of claim 12, the correlation signal peaks corresponding to  
positions of marks...

...spectrum representative of each mark.

14. The method of claim 13, wherein the medium is magnetic tape .

15. The method of claim 14, wherein the marks are servo marks on the tape

...

...prior peak and the pulse.

29. The correlation receiver of claim 1, further comprising:

- a bandpass filter , having a transfer function shape, for  
bandpass filtering an input signal; and
- a correlation filter for correlation filtering the...

...filtered signal with a correlation filter having a transfer function  
shape substantially similar to the transfer function shape of the  
bandpass filter ; and

detecting peaks of the correlation filtered signal.

36. The method of claim 35, the...

...spectrum representative of each mark.